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      found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
      (1994)), 18 nucleotides complementary to the SV40 early promoter,
      and a Xho I restriction site.

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cccgaaatat ctgccatctc aattag 86

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<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

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<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promoter; includes a
      Hind III restriction site.

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<210> 5

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 <213> Artificial Sequence  
  
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 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).  
  
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 gcccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180  
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 ttttgagggc ctaggctttt gcaaaaagct t 271  
  
 <210> 6  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Xho I restriction site.  
  
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 <210> 7  
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 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Hind III restriction site.  
  
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 <223> Synthetic primer with 4 tandem copies of the NFkB binding site (GGGGACTTCCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

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 <213> Artificial Sequence

<220>  
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 <223> Synthetic promoter for use in biological assays; includes NFkB binding sites.

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 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
 cttttgcaaa aagctt 256

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 <213> Homo sapiens

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aaa						2703

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<212> DNA

<213> Homo sapiens

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aaaaaaaaa aaa 1333

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<210> 16  
 <211> 751  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

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atggggaatc agctctaaaa ggaaccagac caacgttttc cagccccttc attctgggtga      180
ctgaggggag gaaagaatgg gagggggtat tcttgtctag tggatggaaa ggaaacacac      240
tgtcaaatta ctatatctcc ttggttttct attacagtag aattctccag ccatattttt      300
attgtctatg ggggaagttg gagatgggtga ccttgattag aagtgtctgg agggggataa      360
atggagggga taagattcag ttggtttttg aaaatgttaa agtcttaaaa taatgcgtcc      420
atctgaagaa ttttttctaa aaccagagtt tataaaaaata tcaactgatac agcctgcccc      480
ctcatttccc tgccacagga gatgtcttgg actagagaca cttgtttaat aatagcttgt      540
ctctgatatt ccagtagct tccctctgtg tgaggaaaagg atagaaatgt tcaggacatc      600
atcatacagg ctctcatctt acaagttcc agtagcagtg acgcctacac ggaagacttg      660
gaactgcaaa caggctgggg tcacctcagt gacatctgac gctgtccaac cagaagttcg      720
attttgttc tgggggtgaa ggaggaaaca g                                     751
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<210> 17  
 <211> 1003  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (990)..(990)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1002)..(1002)  
 <223> n equals a,t,g, or c

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cactctacct ctgacagcat gtatatgtga ccagtagcta acaaaaactg gtctagtcaa      120
accaaagtgg caaaaagaa ccaggatacc aaaagttaag ctcatacagc tgcaaaccat      180
atcacttctt ggtaacaatg cagacctcat aaacctaaag aagagaaaga aaagaaaact      240
tttgttactt tccttttttg cttgtcactt atatacaggc tatgtgaga tataatttgt      300
aggataaca cattaagaaa aagttatctt cattggatag aattgaatgg tggtcgctga      360
taggaatagg gcgtcctcta gctcttatct ctgtctctta ctcttttctc tttctctttt      420
tctctgtcat gagactgtgt gtgacagggc cacctgtctt ttttttttct ttaaattttt      480
ttttcttttt atgtgtaggt gcatgtcttg gggatttaaa aatttcaagg ctgggttact      540
tatgcaaagc atgcctacgt ctggaatact tagggaaaga aagcgactcc atgttgctcg      600
aattcctcaa gggacagaaa aaaaatttga gactgttgaa atgcagattt gaagtaattt      660
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ttaattcaga catgtaccac aagttaatgg tagactaaca ctgggggggtg gggctctaggc      780
atcatgcttt tgtcagcata ctcttgagct ttttaagtcta ctatgtctga actgtggttt      840
cttgtttatc cttttttcct tagttggact gtaatgtatg gtctgtcaac ctgtgaatct      900
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ttaaagtatg	attcaggtat	tggtgtattc	tttactgtgt	aataaaaaag	ttgaaaaaaa	960
aaaaaaaaaa	acccaagggg	gggcccggtn	cctttccccc	tnt		1003

<210> 18  
 <211> 796  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (748)..(748)  
 <223> n equals a,t,g, or c

<400> 18						
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ttcttagcct	cccacctcct	tgctgtggag	cagcttcatg	taccatgatg	catattcaga	180
tcattcttaa	tactcatatt	ttgatagaga	ggtttttagg	ttttctttta	aaccaagttt	240
attgagataa	actacttttg	taggatatgg	aacttaggaa	taatggtagt	aaactagaca	300
gctttttttt	ttttattaca	ctttaagttc	tgggatatgt	gttcagaaca	tgcaggtttg	360
ttacataggt	atacacgtgc	catgggtggt	tgctgcacc	atcaacctgt	catctgtatt	420
cgggtgtttc	cctaattcta	tcccwccct	acccccctgc	ccccaaaaag	gccccagtg	480
gtgatggtcc	cctccctgtg	tccatgtgtt	ctcattgttc	aactccact	tatgagtga	540
aacatgaggt	gtttggtttt	ttcttcctgt	gttagtttgc	tgagaatgat	ggcttccagc	600
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cgtgggtatat	aagtgccaca	ttttctttat	ycagtctayc	atttgggttg	gttccaaatc	720
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aaaaaaaaaa	ctcgag					796

<210> 19  
 <211> 1624  
 <212> DNA  
 <213> Homo sapiens

<400> 19						
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tctgggcatg	ctgcttgggc	tgctgatggc	cgctgtcttc	accttctgcc	tcagtcattca	180
gaacctgaag	gagtttgccc	tgaccaaccc	agagaagagc	agcaccaaag	aaacrgagag	240
aaaagaaacc	aaagccgagg	aggagctgga	tgccgaagtc	ctggaggtgt	tccacccgac	300
gcatgagtgg	caggcccttc	agccagggca	ggtgtccct	gcaggatccc	acgtacggct	360
gaatcttcag	actggggaaa	gagaggcaaa	actccaatat	gaggacaagt	tccgaaataa	420
tttgaaggc	aaaaggctgg	atatcaaac	caacacctac	acatctcagg	atctcaagag	480
tgactggca	aaattcaagg	agggggcaga	gatggagagt	tcaaaggaag	acaaggcaag	540
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aaaa						1624

<210> 20  
 <211> 879  
 <212> DNA  
 <213> Homo sapiens

<400> 20						
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<210> 21  
 <211> 2849  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<400> 21						
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ctgaggttag	ccctgcggcc	gtgtgcccgc	gcctctcccc	ccgggccgcg	cgcctatcac	180
ggggactcgg	tggcctcgtc	gggcacccag	ccggacttgg	gctctgccct	ctaccaggag	240
aactacaagc	agatgaaagc	actagtaaat	cagctccatg	aacggtgga	gcatataaaa	300
ctaggagggtg	gtgagaaagc	ccgagcactt	cacatatcaa	gaggaaaact	attgcccaga	360
gaaagaattg	acaatctcat	agacccaggg	tctccatttc	tgggaattatc	ccagtttgca	420
ggttaccagt	tatatgacaa	tgaggagggtg	ccaggagggtg	gcattattac	aggcattgga	480
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cccttggtta	aagcggcaac	tggggaagaa	gtatctgctg	aggatcttgg	aggtgctgat	900
cttcattgca	gaaagtctgg	agtaagtgc	cactgggctt	tggatgatca	tcatgccctt	960
cacttaacta	ggaaggttgt	gaggaatcta	aattatcaga	agaaattgga	tgtcaccatt	1020

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<210> 22  
 <211> 755  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (733)..(734)  
 <223> n equals a,t,g, or c

<400> 22						
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gcccgcaggt	tctgcttcca	gttgtccacc	ttgaagctgc	ccaggtgcga	gcagcccggc	720
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<210> 23  
 <211> 4129  
 <212> DNA  
 <213> Homo sapiens

<400> 23						
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 <212> DNA  
 <213> Homo sapiens

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<220>  
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<211> 1503

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

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<222> (1501)..(1501)

<223> n equals a,t,g, or c

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 <211> 742  
 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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1153

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<212> DNA  
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<220>  
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<210> 31

<211> 821  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
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 gattttggtg cacctgtcat gtgagcagta tgaactctac tttatgtgta gtcttatccc 420  
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 gggttagatt cagaatactt tgataagagc taaataat catgagtgtc gtcagtctgt 720  
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<210> 32  
 <211> 981  
 <212> DNA  
 <213> Homo sapiens

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 aaaaagcttt tttgcccaaa a 981

<210> 33  
 <211> 864  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

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<222> (757)..(757)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> misc\_feature

<222> (772)..(772)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (781)..(781)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (813)..(813)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (840)..(840)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (842)..(842)

<223> n equals a,t,g, or c

<400> 33

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gnccggccct	tgaaggttac	ctgg				864

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 <211> 1038  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n equals a,t,g, or c

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atctttcaat	aacttttagt	aadataaatg	ttaagttgta	ccagtggcag	tcttatatag	180
taaatggcag	ctgacagcat	gaaaataaca	tatctaatat	tttgtgacta	tcttattagg	240
aaaatcagag	aatttcaaaa	ccttgttagt	ttttagggtg	tagtcacatt	ttataaatgt	300
gcggtatatt	tatacatgat	ttgacgtttg	tgwaaatatt	ttccctggac	tttttttta	360
gatgagatct	acagtgtagg	caaacttata	taatctgtca	actccattag	tgatcatagtc	420
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aggtcattat	caccaagtct	tcaaggkatt	acattataaa	aaccttggkt	tttatctctg	540
tgaatamccg	ttttttccat	gcaaagttaa	aattcttcag	cctttaattt	ttttattaat	600
atataaggat	gtgatgagta	tgactacaaa	acaggaaaaa	ataaacagat	ttcgtttgtg	660
gcttttgcta	aattgttacc	tgacaaaatc	ttagccagtt	cttcattttc	gttttgagat	720
gaagatactt	agtttttagtc	caggggctgg	gcgcgatagc	tgatgcctg	gggtccagtg	780
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tctgtaattc	cagctactca	ggaggctaac	acaggaaaaa	tccttgaacc	tgggaggcag	960
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aaaaaaaaaa	aaactcga					1038

<210> 35  
 <211> 843  
 <212> DNA  
 <213> Homo sapiens

<400> 35						
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tatgtgcccc	gctggctgtg	gctggtaaag	gagctcgagg	ctttgggagg	ggagccctga	180
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actgcgtgga	gggagacaga	gcgcgcaatc	tctccagctg	catgtgggag	cagtgccggc	300
cagaggagcc	aggacactgt	gtggcccaat	ctgagggtgt	caaggaaggt	tgctccatct	360
acaaccgctc	agaggcatgt	ccagctgtct	accaccacc	cacctatgaa	ccgaagacag	420
tcacaacagg	gagcccccca	gtccctgagg	cccacagccc	tggtattgac	ggggccagct	480
ttatcggagg	tgctgtgtgt	gtgttgagcc	tacaggcggt	ggctttcttt	gtgctgcact	540
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ccaagtgttt	aatgcctgac	atctcctcct	gtcctgggcc	tggaaacctgc	agctgagaaa	780
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ttg 843

<210> 36
<211> 849
<212> DNA
<213> Homo sapiens

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gtgaaaactg tcttttcctt gatactacct ttagattcat atttgggaag accttcacta 240
atcatgacta cataagtatt cacttttact ttcttaaggc ctttttgttt tcattctttt 300
atagtaatgt ctaagccatc tggaattagt ttgttgatta tcaagaaag ggatcgaagt 360
gctttttctg agtcattatc cacatgccga aacatttatt gaatagccct ttccttattg 420
atctgaaaac accttcttat aaaaccttgc attggttttt ggacttgctg tgctttcagg 480
agtcagaaga acattctttt gattatkgta gctttacatw aataatacat ttkggccggg 540
tgcggtggct cacgtatgta atcctagcat tttgggagac tgaggcaggc ggaacacctg 600
aggtcagggg ttcaagacca gactggccaa catggcaaaa ccccgctctc aaaaaaaaaa 660
aaaaaaaaaa aattagctgg gcatgggtgg gcctgcctga aatcccagct actttgggag 720
gctgaggcag gagaacctct tgagcctggg aggtagggc tgcagtgagc cgagcttgca 780
ccactgcact ccaacttggg taacagagtg agactccatc tcaaaaaaaaa aaaaaaaaaa 840
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<210> 37
<211> 872
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (844)..(844)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (858)..(858)
<223> n equals a,t,g, or c

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ttgctgcttc acttgctcac ttaatctccc ttttcatagg gctgttgttt ttacttctgg 180
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<210> 38

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<211> 601  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 gatgaccacc gccttgtcct ttatggtaat cactgttctt tgggttttat tactgcattt 180  
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<210> 39  
 <211> 1276  
 <212> DNA  
 <213> Homo sapiens

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 <211> 2084  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c  
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<221> misc\_feature  
 <222> (2083)..(2083)  
 <223> n equals a,t,g, or c

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<210> 41  
 <211> 1765  
 <212> DNA  
 <213> Homo sapiens

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<210> 42  
 <211> 2494  
 <212> DNA  
 <213> Homo sapiens

<400> 42						
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ggtggcagcg	cccagcctgg	cccgaagcat	ggaaacgcac	aaccctaat	cgccctgagc	360
tactgcttct	aacacctctt	ttccctgtg	tgaggggcaa	ccaggctgca	ggtggggttt	420
tcacttctta	gggtagttta	attttaaaat	aggccaatgt	tggctagtct	gtgcctcagt	480
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<210> 43  
 <211> 1509  
 <212> DNA  
 <213> Homo sapiens

<400> 43						
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ctttgggtctc	agtgtaaagat	ccctattaac	tatctgaaag	gaaaatagag	ccaagacctc	180
tgggtctcaaa	tatataggaa	ttgcctttct	ttagtcttca	ggactattgt	gtgaaaacaa	240
gtaggggtct	aatctcctag	aaggtagggg	ctttatcctt	aaagagaata	tgtccccaga	300
ttatttagcac	tttttagagga	gaagccaagg	tatgtagggg	tgtgtggctg	gcccatacgt	360
ggagcacgaa	gagagaatgg	gataccattg	tgggaagaga	agaaaagtgc	ctcagggggc	420
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tttgtgtgtg	tgtgtgtgtg	tgtgtggcta	tgggttttca	tttgtaactc	catctgctta	600
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agaaatagga	cttaattcca	ctaggggctc	tcatctcaca	ccttaaggag	gagatttcta	720
gaaaaactgg	gccagatttt	ctttgttctc	catcatttta	atgtggcagg	ctgttcagtt	780
ttcttactct	tacctatgtg	atatttcttc	gtaacgtgtc	caaaaagaaa	aaagacccaa	840
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gggttctctaa	ttttgggtat	gagttagcaa	atttaaccat	tgtgtttgtg	ccctaccag	960
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aaattaaaaa	aaattgcttg	tctgtctact	tcagctttgt	tttatgccca	tttcatattg	1380
ttgtctgtgt	tgtaatcat	aacttttgat	accatttctg	atgtgtaaaa	ttggttgtct	1440
tgtaaatatac	ttataaagag	ttcaattgta	aataaactat	tgtggctgtt	aaaaaaaaaa	1500
aaaaaaaaaa						1509

<210> 44  
 <211> 885  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (233)..(233)  
 <223> n equals a,t,g, or c

<400> 44

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tacaaccacc	ccagcaggtc	tccagttcct	gccagggttag	tgtggatggc	ccagcaccat	180
ctcctctcca	tcttgttggc	tatcctctct	tgttcctcac	aaccccgcca	ggntcgcggc	240
tcaggagctc	tgccgtgtga	agtgtgctca	gcagttctcc	tcacatgtt	acgcaaaatc	300
tctggctccc	tgtgtgtctg	agcccaacag	acacactgag	cacaggagtt	ggctctcagc	360
tcctcccagc	ttgccgtgac	tgagccytgc	cgtcctgtgg	camcgccasg	gagaccacag	420
tgtccaactg	tccaaccttt	acgtaattgg	catcccagga	ggagaagcaa	gagtgaatgg	480
ggcaggaaaa	gatcattaaa	gaaatcgtgg	ctgacataaa	aaaggatgag	ttcatgtcct	540
ttgtagggac	gcgtggatga	agctggaaac	catcattctg	agcaaactat	cgcaaggaca	600
gaaaacccaa	caccatgtgt	tctcactcat	aggtgggaat	tgaacaatga	gatcacttgg	660
acacaggggtg	gggaacatca	cacaccgggg	cctgtcgtgg	gggaggggg	atggggcagg	720
gatagcatta	ggagatatac	ctaatagtaaa	tgacgagtta	atgggtgtca	gcacaccaac	780
atggcacatg	tatacatatg	taacaaacct	gcattgtgtg	cacatgtacc	ccagaactta	840
aagtataata	aattaaaatt	aaaaaaaaaa	aaaaaaaaact	cgtag		885

<210> 45  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

gaaaaaatgc	tagggagaca	aaatcaaatg	ttaaggggct	gggctctcag	cacattcttg	60
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aggggaccca	gttctattcc	tgcatactta	gccatcatct	acacattttt	tatcttttct	180
tttaaatfff	taaaaaattgt	gaaatctata	tacatataag	ccatatgttc	aacttaaaga	240
atagtaaaca	actgtgtccc	taggatccaa	gttaagaaat	agatcagagt	cagtttctta	300
gaagcttcta	tatgtgtctc	tccccagtca	tgtgtctctc	tgtctctacc	tgagggaat	360
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tactatatgg	ttcggttttg	caaagcccag	aagcctatft	taatgctgta	tataagaata	480
tgctagccgg	gtatgggtgac	tcatacctgt	aatcccagca	ctttcagagg	ctgtggcagg	540
agggttgctg	aagcctagga	attcaagacc	agcctgggca	atatagggag	acccttcac	600
tacaaaataa	aaaattaaaa	aaaaaaaaaa	agggcgggcc			639

<210> 46  
 <211> 790  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (37)..(37)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (55)..(55)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (76)..(76)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (112)..(112)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (120)..(120)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (137)..(137)

<223> n equals a,t,g, or c

<400> 46

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ggcgcggttg	ccgatncatt	aatgcagctg	gcacgacagt	tttcccgact	gnaaagcggn	120
cagtgaagcg	aacgcantta	aatgtgagtt	agctcactca	ttagcacccc	aggctttaca	180
ctttatgctt	ccggctcgta	tgttgtgtgg	aattgtgagc	ggataacaat	ttcacacagg	240
aaacagctat	gaccatgatt	acgccaagct	ctaatacgac	tcactatagg	gaaagctggt	300
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ttgtgtcctg	ctttgagctg	taccttgtcc	agtccattgt	gaaattatcc	cagcagctgt	660
aatgtacagt	tccttctgaa	gcaagcaaca	tcagcagcag	cagcagcagc	agcacaattc	720
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aaaaaaaaaa						790

<210> 47

<211> 1343

<212> DNA

<213> Homo sapiens

<400> 47

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gcctctggtt	ctgggtgagg	ttatttgcag	gtggagacgg	ggggctgcac	ctgaacattt	180
ctagtgtcac	cctccctctc	cttcattgga	aacagctctc	cagggaaagta	ccttcctgcc	240
aggggaagcc	aaggctgggc	cggccgccct	acaaggagcc	acaggattgc	agccatgggt	300
gccacctttc	atggaagggg	agatttatgg	gctttcctgg	aacccccagg	ctgtcctggc	360
caagaggaaa	gaggtggtta	cttcaggagt	ttgaccttag	ttagataact	aaaagaatac	420
atttcccttc	ccttttcttt	atttccctca	taaaaatgta	caaagtatca	ccttctcca	480
tgccccaatc	tgtgttaaag	tcacaatcta	tgggtgtagt	tctgggattc	tgtcaaatc	540
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ccagggccgc	tctttccagc	gcagtcaccc	agaaaggccc	acgtgcagag	cccctgtgtc	780
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<210> 48  
 <211> 712  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (44)..(44)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (56)..(56)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (625)..(625)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (692)..(692)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (699)..(699)  
 <223> n equals a,t,g, or c

<400> 48  
 tgttggttg aattgtggaan cggattaaca atttcaccac gggnaaccgg ctttgnccca 60  
 tggattccgc caaggcccgga atttaccct tcaactaaagg ggaacccaaa gctggagctc 120  
 caccgcgntg gcggccgctc tagaactagt ggatcccccg ggctgcagga ttcggcacga 180  
 ggtttcctgt cagtgtctatt gagattttat tttattaatg tctgcactta gttttacttc 240  
 ctactttcta cttttattga gatttaaacc tggatgaagtc tcaggttcaa ttcctcacc 300  
 tgagcaacct aatgttttat gtcttgttct tcctacattt gggtattgaa actgaagttt 360  
 taggttacca gatttgatag aagcacataa gactacttac tgctttagtc tcaattatta 420  
 attgagaaat tatcaattaa caataaggat ttctcttatt tttccccaag atagttata 480  
 tatttaaaagt gtgttttata gtagaaagg tttagaatat ttgggttgct acattaattg 540  
 aaatggcagc tgaagatgtg atttccagcc agggatttat taaaaaaaaa aaaaaaaaaac 600  
 tcgagggggg gccgtaccca atcgncctat agtgagtcgt atacaatcac gggcgtcgtt 660  
 acacgtcgga ctggaaaact gcgtaccact ancgctgcnc acacccttc gc 712

<210> 49  
 <211> 679

<212> DNA  
 <213> Homo sapiens

<400> 49  
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 tgtccctggt tttctttaag atatcttaaa atcatagtta tactacagtc ctttttaaa 120  
 tgtatcctga tacattgtaa aatattttaaa tttcattgtg gaaaataatg ttggataagg 180  
 agatattttt cactgttaac ttttagccca tgcattttca taattttatt ttttcacttg 240  
 ctgctttata tgacatatgt gacatttgat tatttaaacac ttgatgtgat ctgcataaac 300  
 ccaagttgca caaccctcct gctgaagata aaattgaggt taaagataaa gattttatttt 360  
 catattttgta cagtgatcgg cttcagtgat ggtttttgtg ggcatttatt gtgtgtgtgt 420  
 aagaaatttc atatgtatat attaagtagg cctctgagta ttgaataatt gttttatgat 480  
 tttgatttat atggtttaca ttttcattgt gtgggccata tttcgtttatactgtttatt 540  
 tctcttcaaa ctttaataat tataccataa agtctaattt ttatagcaat gcaaatgtct 600  
 aaggaactac aaatattttt tacgttgtaa attcaataaa gcttgcttcc ttgggcaaaa 660  
 aaaaaaaaaa aaaaaaaaaa 679

<210> 50  
 <211> 627  
 <212> DNA  
 <213> Homo sapiens

<400> 50  
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 ctcttgGCCA gtcctatgaa tgggccttag atgatgcccc tgaaattgca tgcaaaatgt 120  
 ctttatttgc tcaaagtgtg attttttgtg ggggtggggg gaatgacctt tttcagatt 180  
 ctcacagggt tcaagatcca aaaaagttta gatctagtgg gttagggtgtg gatttctctg 240  
 aaataggcca gggaaaaggc tgtgacctct ccttgggtct gctgcagcgt tctagccttg 300  
 gctagggtgag gggaactggt gggccgatgc tgtgtggctg gagcagaacc cacagtgtctg 360  
 tccatagagg agaacaagca acgaagatca tggctaaaga tcttagagat ccttaaaatg 420  
 ccgattccta atctcttgct gaaaactact gactttttaga tattttcccg cttgccactc 480  
 tgtaatccag aatatttagga acaagttctt aaactcgagt ttacttttca ctgggtgttg 540  
 catgtgtggg ggacaaaagt ttatgttctt gtggcaggaa actgtggat ctgcagcatg 600  
 gaggagttta aaaaaaaaaa aaaaaaa 627

<210> 51  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (872)..(872)  
 <223> n equals a,t,g, or c

<400> 51  
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 gctggncgtg gaaatgggag gcggttcag rgggtctatg gggcccggtc ctggatactc 120  
 ggcaaggaaagc cgtgtctgca gaggtcctc cctgcctcag gtggcccggt tcaaccccag 180  
 ccgtgcccat ctctgccac cgctgtcgg tgggggttta aattcggtgt ggctttctgg 240  
 ggtgcagctc agcaccctcc cttatgcaga ctgggagggg gtcgggcagt cccctcagcc 300  
 acgaggaccc tggatggggt ctagttcact tgggaccgtg gggcctggct gcgtactgag 360

tgggtgcccc	acagtcaagg	ccaacggggg	ctccccctgc	tctgagatgt	tgggagaaag	420
gcggtctctg	gaaccttccg	tgggacccgt	aagtggctgt	ccagaaaggc	gggaggggtg	480
gcacggggca	cggggggcag	ctggggctcg	cgtaagggt	cacgcatccg	tacagttgaa	540
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<210> 52  
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 <212> DNA  
 <213> Homo sapiens

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<210> 53  
 <211> 710  
 <212> DNA  
 <213> Homo sapiens

<400> 53						
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<210> 54  
 <211> 1428  
 <212> DNA  
 <213> Homo sapiens

<400> 54						
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<210> 55  
 <211> 1691  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 56

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<220>  
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<223> n equals a,t,g, or c

<220>  
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<212> DNA  
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 <212> DNA  
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<211> 728

<212> DNA

<213> Homo sapiens

<400> 62

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 <212> DNA  
 <213> Homo sapiens

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<211> 1277

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <222> (5)..(5)  
 <223> n equals a,t,g, or c

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<400> 76  
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<211> 3533

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<400> 77

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 <212> DNA  
 <213> Homo sapiens

<400> 78

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 <212> DNA  
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 <213> Homo sapiens

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<210> 81  
 <211> 1077  
 <212> DNA  
 <213> Homo sapiens

<400> 81						
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caagaagcag	aagaagaaaa	cagactcctg	atagtcagg	atgcttcaga	gagggcagca	180
cttatacctg	gtggctcttc	tgatggtcag	ttttattccc	ctcctgaatc	cgaagcagga	240
tctgaagaag	ctgaagaaaa	acaggacagt	gagaaaccac	ttttagaact	atgagtacta	300
cttttggttaa	atgtgaaaaa	ccctcacaga	aagtcatcga	ggcaaaaaga	ggcaggcagt	360
ggagtctccc	tgtcgacagt	aaagttagaa	tggtgacgtc	cactgctggc	tttattgaac	420
agctaataaa	gatttattta	ttgtaatacc	tcacagacgt	tgtaccatat	ccatgcacat	480
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<210> 82  
 <211> 832  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (827)..(829)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (831)..(831)  
 <223> n equals a,t,g, or c

<400> 82	
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tctctaatat	gggcattaag agaggggtac agctagaggg gaggtgaaaa cctgcctcca 240
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tcccatgttt	cacaaaggag ttgtaatgat taacagttca ggtatgcttytgaggaaatc 360
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ccaggtttct	gaactaaaat gatctattga tgtttctcaa agtatagatc acagagtaag 600
aaaagaggaa	atcaagtctg gtttatgaca aacttttttc catgttaaca ttggacccaa 660
agatgttamt	aagagctttt tactactgtg agagraccag cgtgatgtga agacaacgaa 720
cattttaaga	agtttgacta gtagacattt cgtttaagtc ttttgaggg tcttggttga 780
caaccacaa	ttttattgtg gctccccagg ctggggagaac gtggaannnc na 832

<210> 83  
 <211> 1209  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1120)..(1120)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

<222> (1127)..(1127)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1141)..(1141)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1161)..(1161)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1197)..(1197)  
 <223> n equals a,t,g, or c

<400> 83  
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 gagctggaat ggcgcagctg gaaggttact atttctcggc cgccttgagc tgtacctttt 180  
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 gggatcccat gattactaca ttacctggct tgtacctggt gtcaattgga gtgatcaaac 360  
 ctgccatttg gatctttgga tggctctgaac atgttgctctg ctccattggg atgctcagat 420  
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 cagtattttc aacactttat ttttttaact tcctttatta tacagaagca ggatctatgt 600  
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 ttggattttg tggcttcatg tttcggcaaa caaatatcat ctgggctgtc ttctgtgcag 720  
 gaaatgtcat tgcacaaaag ttaacggagg cttggaaaac tgagctacaa aagaagggaag 780  
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 atcggagtag tcatgaagcc tgtcttcatt ttcctcaact attctacttt ttttcattta 1020  
 ctctcttttt ttccctttct catctcctgt ctccctagcaa aattaagact tttcctttcc 1080  
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 ttataattt 1209

<210> 84  
 <211> 1669  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (587)..(587)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1634)..(1634)  
 <223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (1648)..(1648)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1659)..(1659)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1668)..(1668)  
 <223> n equals a,t,g, or c

<400> 84  
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 acatcggcga gaccgagaag cgctgtttca tcgaggaaat ccccgacgag accatggtca 180  
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 tccctcctcc cgagcccagc cgggtcgctg gctccccag taccagcct gagggtgccc 300  
 cgaggacgcc agggcccctg cctagagctc cgggcccgcac gtcggagggg gccgggcgga 360  
 gaggcggccc actagggccg gtcgtgacta tgtgtctgcc ccgcaggcaa ctatcgtaac 420  
 cagatgtggg ataagcagaa ggaggtcttc ctgccctcga cccctggcct gggcatgcac 480  
 gtggaagtga aggaccccga cggcaagggt gtgctgtccc ggcagtagcg ctcgaggggc 540  
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 cgcgcccgcc agttgcttga tcaggtgga cagattcaga aggagcagga ttaccaaagg 780  
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 gtatggtagg tagaataatg ggctaccac tgtgtaaaca tatggatatg tttacctaac 1620  
 atgacagaag aganttaagt tgctaataag atgactgtna aataaatna 1669

<210> 85  
 <211> 1336  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
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 tcatgctaata atccgtggac agtaatgtgc ctgttgtgtt ccttttgctt ttcatccttg 180  
 tgatcttatg tcacatggaa tgtaaaggcc acatatatat atgtgtgtgt gtgtgtgtgt 240  
 atatgtatat ttttaagaat atttagtctg gatttcatga aattgacttc tgaaataatt 300  
 tgcccaatt ttgtttcctg gtgggttgag aagaaagttc ctgtggtgaa atgaaaaggg 360  
 gataaaggga agtacttatt ttaaaacata agtaacttgt ggattgttga atactggaaa 420

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aaaaaaaaaa	aaaaaa					1336

<210> 86  
 <211> 799  
 <212> DNA  
 <213> Homo sapiens

<400> 86						
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ttcctgggat	tggcagaagc	ctgtactcct	cgtgaagtca	acttgctgaa	agggatcata	180
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aaaaaaaaaa	aaaaaaaaa					799

<210> 87  
 <211> 1345  
 <212> DNA  
 <213> Homo sapiens

<400> 87						
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tgccatggct	gtgatgaacc	accatgtatg	ccctgtggag	aactggctct	acaacgagtc	180
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<210> 88  
 <211> 1347  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (83)..(83)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (334)..(334)  
 <223> n equals a,t,g, or c

<400> 88						
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<210> 89  
 <211> 642  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (41)..(41)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (49)..(49)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (64)..(64)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (607)..(607)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (621)..(621)  
 <223> n equals a,t,g, or c

<400> 89  
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 <211> 802  
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 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
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 taataagagt tccacaatca atagaaatct atcttggcag gcacttcctt ttaccacta 180  
 gaattttttt ccttgggagt tcacgatccc cagaaactgt gatatgagcc attcaatatt 240  
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 aaatcttaca gacttatatg aaagctgttg ttaacagctg ggtactagtt atttgaaaag 420  
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<210> 92  
 <211> 1881  
 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<220>

<221> misc\_feature  
 <222> (1860)..(1860)  
 <223> n equals a,t,g, or c

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gtcaagtctg tctaattctaa ctagegcctc gctttgcctt ctcaaatgc tcaactagcca      240
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<210> 93  
 <211> 1450  
 <212> DNA  
 <213> Homo sapiens

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tgttattgtt aatatcatta tttttgtctg tcgtttattg tcagtctaca aattagatat      180
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tttctttact cagtgtttta tcaaatacat cctttaggaa ttcctttaat ttggtctctt      300
gttgcatat gttcagtttt catttgccta ttaaatgttt atcactttt tcgtgatagg      360
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 <211> 541  
 <212> DNA  
 <213> Homo sapiens

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c						541

<210> 95  
 <211> 795  
 <212> DNA  
 <213> Homo sapiens

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aactcgaggg	ngggc					795

<210> 96

<211> 762  
 <212> DNA  
 <213> Homo sapiens

<400> 96  
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 <211> 1103  
 <212> DNA  
 <213> Homo sapiens

<400> 97  
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<210> 98  
 <211> 1633  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 99						
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aaaa						1384

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 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (875)..(875)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (914)..(914)  
 <223> n equals a,t,g, or c

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<210> 103  
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 <212> DNA  
 <213> Homo sapiens

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<210> 104  
 <211> 2895  
 <212> DNA  
 <213> Homo sapiens

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<220>
<221> misc_feature
<222> (874)..(874)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1201)..(1201)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1266)..(1266)
<223> n equals a,t,g, or c
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 <211> 1155  
 <212> DNA  
 <213> Homo sapiens

<400> 106						
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<210> 107  
 <211> 2566  
 <212> DNA  
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<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<400> 107						
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<212> DNA  
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<212> DNA  
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<210> 111  
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<212> DNA  
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<400> 111

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<210> 112

<211> 875

<212> DNA

<213> Homo sapiens

<400> 112

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<210> 113

<211> 2152

<212> DNA

<213> Homo sapiens

<400> 113

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<400> 114

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taagtgaaaa catgctctgt gctttgaaac aaaaaaaaaa aaaaaaaact cgaggggggg     1380
cccggtaacc aattcgccct atagtgaagc gnattacaat tcactggccg cgntttacaa     1440
cgtcgngact gggaaaaacc tggcgttacc caacttaatc gccttgccgc acatccccct     1500
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<210> 117
<211> 1559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1445)..(1445)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1551)..(1551)
<223> n equals a,t,g, or c

<400> 117
atccagcagt ggggagacag cgtgctgggc aggcgctgcc gagaccttct cctgcagctc      60

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gcggacacca	gcgactccc	ggcgttgag	aaccgaggg	cgatgccag	catggcctgc	240
cggaagctgg	cggtggcgca	cccgtgctg	ctgctcaggc	acctgccc	gatcgcgcg	300
ctcctgcacg	gccgcaccca	cctcaacttc	caggagttcc	ggcagcagaa	ccacctgagc	360
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caccaggggg	cgctgtggga	ctgccttctg	tccttcatcc	gcctgctgct	gaattacagg	480
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<210> 118  
 <211> 1231  
 <212> DNA  
 <213> Homo sapiens

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tttgtctgtg	cccgaaaagt	ttggcatcat	tcgtccaggc	tgtgccctgg	aaagtactac	180
agccatcctc	caacagaagt	acggactgct	cccctcacat	gcgtcctacc	tgtgaaactc	240
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tgtgtctttc	tgagcactgt	agaccaagcc	cttggagctg	ctgggttagc	cttgcacctg	420
gggaaaggat	gtattttattt	gtattttcat	atatcagcca	aaagctgaat	ggaaagtta	480
agaacattcc	taggtggcct	tattctaata	agtttcttct	gtctgttttg	tttttcaatt	540
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catttaagg	caaaccagcc	agaagtgtctg	gtgtgtttta	aaaagtctca	ggtggctgcg	660
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<210> 119  
 <211> 1189  
 <212> DNA

<213> Homo sapiens

<400> 119

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ccaggcttgg gatactccca ccatcgtctc ccgcaaggag tggggggcaa gaccgctcgc      180
ctgcagggcc ctgctgaccc tgctgtggc ctacatcatc acagaccagc tcccagggat      240
gcagtgccag cagcagagcg tttgcagcca gatgctgcgg gggttgcagt cccattccgt      300
ctacaccata ggctggcg acgtggcgta caacttcctg gttggggatg atggcagggg      360
gtatgaaggt gttggctgga acatccaagg cttgcacacc cgggctaca acaacatttc      420
cctgggcctc gccttctttg gcaataagat aagcagcagt cccagccctg ctgccttctc      480
agctgcagag ggtctgatct cctatgccat ccagaagggg cactgtcgc ccaggtatat      540
tcagccactt cttctgaaag aagagacctg cctggacct caacatccag tgatgccag      600
gaaggtttgc cccaacatca tcaaagcatc tgcttgggaa gccagagaga cactgccc      660
taaaatgaac ctcccagcca aatatgtcat catcatccac accgctggca caagctgcac      720
tgtatccaca gactgccaga ctgtcgtccg aaacatacag tcttttcaca tggacacacg      780
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ccaggacttt gggaggccaa ggcgggcaga tcacttcagg ccaggaattc aagagcagcc      900
tgccaatat ggcgaaactc tgtctctact gaaaacaaac aaacaaacaa acaacaaac      960
aaagaaacaa caaaaattag ccgggtgtgg tggcacacgc ctgtagtccc agctactcag     1020
gaggctgagg cataagaatt gcttgaacct tggaggcgga gggtgcagtg agctgagatt     1080
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<210> 120

<211> 3153

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2584)..(2584)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2590)..(2590)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (3153)..(3153)

<223> n equals a,t,g, or c

<400> 120

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tagcatggtc caactgcagg gtgggagatt cctgatggga acaaattctc cagacagcag      180
agatggtgaa gggcctgtgc gggaggcgac agtgaaacct tttgccatcg acatatttcc      240
tgtcaccaac aaagatttca gggattttgt caggagaaaa aagtatcgga cagaagctga      300
gatgtttgga tggagctttg tctttgagga ctttgtctct gatgagctg gaaacaaaag      360
caccagcca atgaagtctg tactctggtg gcttccagtg gaaaaggcat tttggaggca      420
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gttcatgttg	tcatccaaga	gaatgttctc	gggcttcagg	tcccggtgca	cgatgttgag	3120
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<210> 121  
 <211> 2496  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2340)..(2340)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2373)..(2373)  
 <223> n equals a,t,g, or c

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gggtccctag aggccggttc ctggtctgtg ctgctctcct ggaagccatg gtacaggcag      180
agctcagggc gatccccagg tgagggcgag ggctctgcct gggattccac cgcagtacaa      240
ccgggtagat gcgggggtga gaagaaagga tgttgccctgc actgctcgcc aatagcacc      300
tgagaggcta catttgacaga agcagcagca gcagaagaca cagcgccggt ccaggaggcg      360
gctcgagctg ttcgtaaagt cgcccagacag ctttttctcc gtagtatgag agttgacaaa      420
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ctcctttatg ttgctgtcca ccatgggcta tgggagaagt attgctgttt aggtgcaaac     1020
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agctgcttgg tatatatgac gaagggaact ttagcttttc aaatgcttgg acttatgg      1140
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tactaaaaga agaactgagc ccaatccaac ctggtggcaa atttctttgt gtaaagctgg     1260
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tttctgaaaa gcatacgtgg gaatggcaaa ctgtagaagc tgtggccacc ggactccagg     1380
attttattat ctgtattgag atgttccctg ctgccattgc tcatcattac acattctcat     1440
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gatccgcgca cctcggcctt ccaaagtgtc ggnaatacagg cgtgagcca ctgggccttg      2400
ccaagattgg gcacttttta acatcagaac ttctatcac tgctgcattg agttgctccg      2460
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<210> 122  
 <211> 1001  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (919)..(919)

<223> n equals a,t,g, or c

<400> 122

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tggaatattta caaatatgac agtcagattc ttttcaattg gaaaaggtaa aactccgaaa      180
cagttttttt atttttaact tttaatcctt gttttcacct catcctgctt atattaaatt      240
tctacacacc tcaaccttct accacgggat acagattcaa tgggtgacac tttttatgct      300
attggacttg tgatgcgact ttgccaatcc gtatctctcc tggaaactgct gcacatatat      360
gttggcattg agtcaaacca tcttctccca aggtttttgc agctcacaga aagaataatc      420
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ttattcgtct tttggaatct attggatatg gttaggtaca cttatagcat gttatcagtc      540
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cctttgtgtg ttcttgctga agcatttgcc atctatcaat cgctgcctta ttttgaatca      660
tttggcactt attccaccaa gctgcccctt gacttatcca tctatttccc atatgtgctg      720
aaaaatatc tcatgatgct ctttataggt atgtatttta cctacagtca tctataacta      780
gaaagaagag acatcctcgg aatctttccc attaaaaaaa agaagatgtg aagtacagca      840
ttccagtgtg acacgagaaa agacaggctg tggattcagt gcagtaaata aaacacagga      900
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aaaaaaaaaa aaaaaaaaaa aaaaaaamaaa aaaaaaaaaa a                                1001
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<210> 123

<211> 1142

<212> DNA

<213> Homo sapiens

<400> 123

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caaggaggac ttcgttttgc tcatcttctg gatcaggtct ccagagtaga tcttgaaatg      180
aggatccgtt ttacctctcc ccacccaag gattttcctg atgaggttct gcagctgatt      240
catgagagag ataacatctg taaacagatc cacctgccag ccagagtggt aagcagccgt      300
gtgttgaggg ccatgcggag gggatattca agagaagctt atgtggagtt agttcaccat      360
attagagaat ctattccagg tgtgagcctc agcagcgatt tcattgctgg cttttgtggt      420
gagacggagg aagatcacgt ccagacagtc tctttgctcc gggaaagttca gtacaacatg      480
ggcttccctt ttgcctacag catgagacag aagacacggg catatcatag gctgaagat      540
gatgtcccgg aagaggtaaa attaaggcgt ttggaggaac tcatcactat cttccgagaa      600
gaagcaacaa aagccaatca gacctctgtg ggctgtaccc agttgggtgct agtggaaggg      660
ctcagtaaac gctctgccac tgacctgtgt ggcaggaatg atggaaacct taaggatgat      720
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<210> 124

<211> 2238

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (12)..(12)

<223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (45)..(45)  
 <223> n equals a,t,g, or c

<400> 124  
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 cacctggctg gcaccgtctg cgtcctgctg tccttcccct tcattctcag cccctgcctg 300  
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 aagataaaaa gaatagagaa caagaaagaa aaaaaaaaaa acaagggggg actttttggg 2160  
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 agggaatagg ggcccata 2238

<210> 125  
 <211> 1052  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
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 cggcctgttt cggccgcccc ccgcgctctg cgcgcggccg gtaaaggagc cccgcggcct 180  
 aagcgcagcg tctccgccct tggctgagac tggcgctcct cgcgccttcc ggcggtcagt 240  
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa		1052

<210> 126  
 <211> 1492  
 <212> DNA  
 <213> Homo sapiens

<400> 126						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	ag	1492

<210> 127  
 <211> 1794  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1675)..(1675)  
 <223> n equals a,t,g, or c

<400> 127

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ttggtgtata	attagcattg	aatgaattta	agttttcttt	ctttctttct	tttcttttat	240
cttctgtggt	ctcctgcaga	atcagtctat	aaaaagggca	tggtaaaaaa	aaactatct	300
catagcattg	ttgaaaagat	taaatgacat	aataagatga	tgcatatata	gtagctagca	360
ctgtacctga	tgcatattag	gagcttgata	atattactaa	cattatcatc	atcaatgcta	420
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gaatatcttg	agcctgggag	ccagaggttg	cagtgagccg	agatcattcc	actgcattcc	1740
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<210> 128

<211> 1346

<212> DNA

<213> Homo sapiens

<400> 128

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aacaggctgg	cagctcgctc	ctgctgcccc	caggagccag	gcctactcta	ctgggaaggc	1260
tgagcacaca	cctggaaggg	caggctgccc	ttctggatat	gtaaagtctt	gctgggaaga	1320
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<210> 129

<211> 1262

<212> DNA

<213> Homo sapiens

<400> 129

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cg						1262

<210> 130

<211> 2572

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (2527)..(2527)

<223> n equals a,t,g, or c

<400> 130

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catgggcgca	cttggtgcgt	gcaccacct	gtgcctgggc	tactacaaga	acattcacga	180
catcatccct	gacagaagtg	gcccgagct	ggggggagat	gcaacaataa	gaaagatgct	240
gagcttctgg	tggtcttttg	ctctaattct	ggccacacag	agaatcagtc	ggcctattgt	300
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tacatttcct	atTTTtgc	tttcaataaa	atgtctctaa	tacaatacgg	tgattgcttg	2400
tgtgtctaac	atacctgcag	ttgaaacgta	ttgtatcaat	gaacattgta	ccttattggc	2460
agcagttttt	taaagtccgt	catttgcatt	tgaatgtaag	gctcagtaaa	tgacagaact	2520
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<210> 131  
 <211> 1488  
 <212> DNA  
 <213> Homo sapiens

<400> 131						
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ttgaggagg	ccatctggct	gtgtactaca	ggggaggagc	tttactaact	agccccagtg	240
gaccaggcta	tcatatcatg	ttgcctttca	ttactacgtt	cagatctgtg	cagacaacac	300
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agttctgcag	tgcccacaca	cttcagggaag	tttacattga	attgtttgat	caaatagatg	540
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aacaatcatt	atacggactc	ttcagattta	cagagaactt	acacttcac	tgttccacct	1260
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<210> 132

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (287)..(287)

<223> n equals a,t,g, or c

<400> 132

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ctctcgcaaa	caaagacagc	cacttcagag	ctcctaggaa	atagtgggtc	tcccatcatc	180
attgcattcc	ttaatsacat	ggtgaaaatt	aacaatggct	aaggagcctt	tggttttct	240
cctctacaat	atgcccagga	atttctggca	ttttggccat	cttattnata	ggctattact	300
gaatttmagc	ctmatcctmc	caaattatta	atgccaaaat	attaactctt	gattccttagg	360
tgagtgcacc	catgccaata	aatttgccat	gatctaacct	taaatgtatt	ctcatatatg	420
ctgtccaagt	ttctctgat	taaaatggca	aggcctttag	ttctcctaca	taggttttct	480
ctctccagag	aaggcctcaa	ttctctgact	aggctatgtt	gggatataac	tgagggcact	540
aataggtagt	agggtaaatt	ctttatttta	ttatttttgg	agacagggag	ggtcttgctt	600
tgttcagact	ggagtgcagt	ggtgtgatca	tggtcattg	caactttga	ctcctgggcg	660
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<210> 133

<211> 1022

<212> DNA

<213> Homo sapiens

<400> 133

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acacactgat	gctcaaatcc	taagggtgcca	agctctaggc	cctggaggct	ggtagaacag	180
gatctatgcc	tggaatcctg	gcagggatcc	ctgtcaagga	cttgtgttta	agcctgcttc	240
agggtctcag	gctgcttctg	ctctgtgtct	gccaggctg	gctgagggg	tggtgggtg	300
gacagaaggg	ctcaccaagg	attgtggaca	tagggtaggc	cctggtacca	cgggtttcag	360
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tcccaagggg	ccccccagtc	cgtggtgaag	cctagcactc	atgcagctct	taggggaacca	960
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cg						1022

<210> 134

<211> 1766

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (14)..(14)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (36)..(36)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1750)..(1750)  
<223> n equals a,t,g, or c

<400> 134  
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tgtttatgga ggggccagta agtgcaaaac accattgcct ggtcctaagg gttcagagtc 120  
cccgaattcc ttcttggacc aggaaagccg gagacgaaga ttcaccattg cagactcgga 180  
tcagttgcct ggggtactcg tggaaccac cattctgccc acaaaaatga gagagaaaac 240  
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tgtggaccct tttgccagac ctcgaggtca tggcaggaaa ggggaggatg ccctttgccg 360  
gtatttcagt aacgagcgga ttctccgat cattgaagag agctcctctc ccccataccg 420  
gttctccaga cccacgaccg agcggcatct ggtccggggg gcggactaca tccgaggaag 480  
caggtgctac atcaactcag atctccacag cagcgccacg attccattcc aggaggaagg 540  
gacccaaaag aaatctggct cctcagctac gagtcctcgt ccacagaacc gtcctcctg 600  
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ctgcctggct cctgscctaa gtgccttgct tttacagtgg acagcctctt ctggtttcag 720  
cctcagtatt atgtagggac cttatgcaat ttctttttct tttgaaaagt tatctactgc 780  
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gactggtggc attgttcctt tttgaggggc tggggggact caaattggtg gctgttttca 1020  
cacagatgtg ttggtttgtg gtccaacttc tttatctgaa aaagccagtg agaaaacatt 1080  
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attttgacct gttcagtgct tgtcttccag caggtgtgt acacttcttc aaaattgtac 1500  
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caggtatttt gaaaacgtgt gtctggatat taactcttgt ttaaactgaa tgtatgatat 1620  
tttgtagaa tggaagagta ctatcttggt aatttaagta tttaaatat agttgtatat 1680  
ttttcttaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgctctagag gatcccgcga 1740  
ggggcccan attacgcgtg agcgtt 1766

<210> 135  
<211> 989  
<212> DNA  
<213> Homo sapiens

<400> 135  
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cctgcctcag	cggcccccat	gggcgggccca	gaactggcac	agcatgagga	gctgaccctg	120
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ggacggctga	caaaggccag	gaacagcctg	ggtctctatg	gcgcacaat	agaactcctg	240
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cagagcagag	acagacgcag	gcggggacaa	aggcagagga	tgtagcccca	ttggggaggg	900
gtggaggaag	gacatgtacc	ctttcatgcc	tacacacccc	tcattaaagc	agagtcgtgg	960
catctcaaaa	aaaaaaaaaa	aaaaaaaaaa				989

<210> 136  
 <211> 2286  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2262)..(2262)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2264)..(2264)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2272)..(2272)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2278)..(2279)  
 <223> n equals a,t,g, or c

<400> 136	
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ggttctgtgg	gccttcgtct
cgacgtagct	tttggtttt
gctctcacc	cataatgctc
cattgattat	ggcaccagga
agcagccatc	ccgcttgccc
ccatgatctt	gatgtgctgc
attagggaaa	gcaaaaaaac
atgtttccag	gacaactgca
gttggtatca	gtaagatttg
ctgaacttcg	agaaagaaac
tactaatcct	agtccttttc
taggtttttc	tagttttatc
tcctgatatt	cttggttaagc
tgaaccacct	ggtgctggcc
tgggcctatc	cagggtcatg
ttctgggcta	catgcagtac
tttactgtgg	agtcaacgat
ttccacatt	cgatgatgtc
tttcaggctt	ccttgggat
ccattactga	acacagccat
tattttattca	acaactgttt
ttatactgtt	gctgttaaaa
taatccctaa	atcaacatac
ttctgtaa	atacatgcag
tttttaacag	tattttttaa
tggttgccaa	gttgggagat
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gcatgagaga	gggcagagaa	actaagttgc	tggggaaaagt	tagagggaact	gaaagtttgg	1140
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cagtcatctc	cactgaataa	agaataatgc	tcctctttca	gggtaataaa	gtggggaaaa	1260
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aagaccacca	aacgcagggt	ggactctgct	cattattctt	tgacccagaa	agactggaga	1560
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cagtgtccac	aaatctgaat	attaggggca	tgaaattagg	cttaccatct	gatttgtaat	2040
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tctttgttaa	ttgtacactg	aataatgcct	tttaaaaatc	aaaaataaat	taaaaataa	2220
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tagtga						2286

<210> 137

<211> 1240

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1225)..(1225)

<223> n equals a,t,g, or c

<400> 137

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gaactggagc	taaggctaag	tggctctgtct	gtttaataag	agtttgaa	agatggcctg	180
gcatgaagag	tcactggcct	gagagaatgt	caggggcatt	tgtaaagtgt	taaagggctg	240
aaaaatcctg	agggattatt	attattgtcta	ttgttgttat	tattcacaga	cacatccaac	300
agccattgtc	tgccctcctta	tctgtcatgc	tttctgcacg	agcgtcagcc	tgagcttcaa	360
tctgtgtgta	tatctgcagc	ttacgtcctt	gccacccctc	cagaacccag	tttcatcctt	420
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atttataata	ttgccccatg	cctggcttat	aggatagttt	agactatttt	ctctcttttc	1020
catctccttc	ctcaaaagaa	ggaaaagtcc	ccctctattg	cctcagccct	ctcatctgag	1080
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aatgattaac attttttctct tgggntatca aaatttgcatt

1240

<210> 138  
<211> 997  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (963)..(963)  
<223> n equals a,t,g, or c

<400> 138  
cccgaactcta ggccggaagc gcgcggagac catgagtga gaccctcgcg aggtctgaga 60  
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cgccccgagg cggtagcttc agagcctcca gtgcctgtgg ggctggaggt gaagttgggg 180  
gccctgggtgc tgcctgtggt gctcaccctc ctctgcagcc tgggtgcccatt ctgtgtgctg 240  
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gagttcatcc tggccatggg cttcttccctg gtccctgtga tggagcagat cacactggct 480  
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aatgggtgggc cgcagcattg gcatgatggg ccagggggtcc cacaggcgag tggagcccca 600  
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<210> 139  
<211> 2383  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (538)..(538)  
<223> n equals a,t,g, or c

<400> 139  
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aggtccctta atatggactt tgaaaaatcaa gataaggaga aagacagtaa tagttcttct 180  
gggtctttca atggcaacag caccaataat agcatccaaa caattgactc taccagggct 240  
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gttcaagtag tttttacaat atgtacagca gttcttgcaa cgatagcttttgcctttctt 360  
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ggttgctgtg gacgtttcac tgcctgtgag ttgctgtcat tctctctgtc tgtcatgtc 480  
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<210> 140

<211> 2081

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (538)..(538)

<223> n equals a,t,g, or c

<400> 140

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ttaacaccat	ctcagcctgg	gctctccagt	caggagcact	ggatgcaagt	cggcaggtgt	180
ttgtgtgtgg	aaatgacagc	aaagccaagc	aaagagtgat	ggatattggt	cgtaatcttg	240
gacttactcc	aatggatcaa	ggatcactca	tggcagccaa	agaaattgaa	aagtaccccc	300
tgcagctatt	tccaatgtgg	aggttccctt	tctatttgtc	tgtgtgtgctg	tgtgtcttct	360
tgtttttcta	ttgtgttata	agagacgtaa	tctaccctta	tgtttatgaa	aagaaagata	420
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cagcaagcta	aataaatatt	gtaaaattgc	actatattag	gttaagtatt	atntaggtat	1980
tataatatgc	tttgtaaaat	ttatatcca	aatattgctc	aatatttttc	atctatataa	2040
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<210> 141  
 <211> 646  
 <212> DNA  
 <213> Homo sapiens

<400> 141						
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tacagacttc	caagaggctg	attctggctt	caagatggag	ccttggagtt	ggtttttttt	180
tttttttttt	ttcttccctc	aaagaacctg	cggttgcgct	ttgtgtgttt	tgttttttgt	240
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gtgttccat	aaaggccctt	ttctttctta	gtgttgtaag	ttacattttc	attatgcccc	360
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agctctaatt	attgcagaca	tatttttgag	atgtaaaaaa	aaaaatttaa	agttaaataa	480
taagtcttag	aggcgagtga	ggaataaaa	ggatgtaaac	atttacatgg	gatgcattag	540
aattctgctg	tgtgtactgt	cttttggttg	aaacaaatta	tgaacagtga	ctaataataa	600
aaagtcaata	cccaawraaa	aaaaaaaaaa	aaaaaaaaag	gcggcc		646

<210> 142  
 <211> 312  
 <212> DNA  
 <213> Homo sapiens

<400> 142						
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ggtgcatttt	gtgtgtgcct	tccagagcga	gtggactggt	gtgtatccaa	tgatgccacc	180
tctgaaacct	acagaaccac	tatgctttgc	atgtgtaccc	tgcagggtct	gagggccagg	240
ctgtctggta	gctctgctcc	tgggtgacag	agcaagactc	tgtctcaaaa	aaaaaaaaaa	300
agggcggccg	ct					312

<210> 143  
 <211> 770  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (770)..(770)  
 <223> n equals a,t,g, or c

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<400> 143
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taactcttct atgtctacat gaagtgccat ttagaaataa tcaactctta atcagcctgg      180
gatagtcagt actaaaagca ccttcatgag ctgtgaaaaa tttaatgcat ttatttacat      240
atttagtttt aaatttttagt atattgttag ttgagggtata gtttccaaac aaagagcgt      300
gaaatgttta gtaactgtct ctgtacctct ggatgaggac agctcagccg ggaatggagg      360
gggactgggt gaggagacca gaatgtcagt gtggccacgc agcacacttt tgttttgtct      420
tctgtccctg agcactggct tgttcctgga taaactaggc ataataatac ctatcctgct      480
gtgtgggtgg aagggttaa atgtgataatga tgtgtgtgag atgcctgcac agtgcctgga      540
ggtattgaag aattatttgc tgccttttct ttttctacct accacttacc cgctaccccc      600
gggtgctaca tgtagaaaa cactgtgtaa agtgtggatg cttctgaaaa atctccctgc      660
cagcagttag tgccaatagc gtgcagaaaa taagatgcaa tgatttggct tttttctgt      720
ttggcaataa gaagcttatt tgcacatagc ctgatttctt tcaatctgcn      770

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<210> 144

<211> 1276

<212> DNA

<213> Homo sapiens

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<400> 144
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tcatacccca ctatgttcct caagactgca gccattaact ttttagagtt ccctaaacat      180
gctgtttact ttcatgcctc tatcccgttg tctgtggaat gacttccctc cttgcccttt      240
tcagtgtcac aaacccctat tctttaagac atagtacaaa tggcatctcctgggtggcat      300
ctttcctgca ggctacagg cctagtaagt atcttctctc tctgtgctcc tgcataacct      360
cattcctttg ttatgacatc tataacttta ataagtacta aaatctgtag tctacaaaaa      420
ctcaggcata gaactcattt cctttatggy tctataatgg aactttacct aactctcag      480
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tttctcctct tttgtctatg ctgggagagg cattgtgggg aggggtgtct ggcttatggc      660
tcccattgtc ctctgcttga taaaccaccc gagctttggt cattgcagt ctctgtgcc      720
ttcacactc aggtagtgtc tgcacaggcc actctatgtc tttccatgc tgaagaaatt      780
ccttccctagg ccattgtctg gttcctcctg ccacacagga aatttttgag catgttcatc      840
ctccaagctg aatgcagggt cttgggtagt ggtcctcacc tgcctcagag acttctccag      900
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tactctctgc tctgtcattt atggtaaaca aaataaaata ataaaaaaa aaaaaaaaaa      1260
aaaaaaaaag gcggcc      1276

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<210> 145

<211> 1223

<212> DNA

<213> Homo sapiens

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<400> 145
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tcaggacccg cagcttcarg tctgttggag tttgctggg gtccactcca gacctcttt      180
gcttgggtat cagcagcaga agctgcagaa cagcggatat tgggtaacag cagatgttgc      240
tgctgatcgt ttctcttgga agttttgtct cggagtaccc agccatgtga ggtgtcagtc      300
taccctactt gggggatgcc tcccagttag gctacttggg agtcagggac gcacttgagg      360
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aggctktcag	acagggacgt	ttaagtctgc	agaggattct	gctgcctttt	gtttggctgt	480
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ctccaccgag	ttcagatttc	ctggccgctt	tgttacccc	ctcaagcctc	ggcaatggtg	600
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ttatagcaaa	acttattttt	tcatgcagaa	tagtctatat	tctatattta	ttgtaaagca	1140
tataccgtac	atgggtgacta	gtcaccatgc	tgtacaataa	attttctgaa	cttaataaam	1200
aaaaaawaaa	aaagggcggc	cgc				1223

<210> 146  
 <211> 864  
 <212> DNA  
 <213> Homo sapiens

<400> 146	
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gccatggact	cccgtgtcca
ctgccagccg	aggaagcccc
gggctgtgtc	acagtcacgc
tgggtgctgc	gtgctacctg
tctgtgggga	tggtggagacc
cgtgcgtgga	gagaaaggcc
vcaggatgc	aaaggccycc
ggcaaaamcc	atacggatgc
cctctgcggg	tttctgtccat
cccctcggcc	tccaggtgag
ggctcatggc	cctgtagcgc
agctactact	gtaatgcgtg
acgtgcttaa	gcccttttgc
aaaaaaaaaa	aaaaaaaaaa
	aaaa
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	360
	420
	480
	540
	600
	660
	720
	780
	840
	864

<210> 147  
 <211> 1267  
 <212> DNA  
 <213> Homo sapiens

<400> 147	
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agattgaaga	tggatacgtg
caagacacag	tgtaggggcc
ggacaatgaa	tctgtcgagc
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ttgtggctct	ccaccagctg
gagagaaggt	cttctgggac
ccgcagctgt	gggctctgct
cagaactggt	gctgggttca
gcagtccacc	tgtccaactt
ctctttgcct	ttcttgggtt
gctatgacca	cgttgcctct
ttaaaggcgg	gctgggtccga
atgtttcact	gccgcagtgg
	tctaacctac
	cacatgtggt
	gggtgtgttt
	ctggcactgg
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	300
	360
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	480
	540
	600
	660
	720
	780
	840



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<210> 149
<211> 883
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (19)..(19)
<223> n equals a,t,g, or c

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<400> 149
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gtgaactttc catccggata ggtagagctg ggcttctttc agacaagagt gagaatggtg      180
aggcatatca gagaaagaag gcggcagcca ctggccttcc agagggtcct gctgtccctg      240
tgctttctcg agggaaatctg gcacagcccc gcggcagcag tggaggagg atcgcaactgc      300
tcatcttggc catcactata cacaacgttc cagagggtct cgctgttggg gttggatttg      360
gggctataga aaagacggca tctgctacct ttgagagtgc caggaatttg gccattggaa      420
tcgggatcca gaatttcccc gagggccttg ctgtcagcct tcccttgoga ggggcaggct      480
tctccacctg gagagctttc tggatatggg agctgagcgg catggtggag cccctggcgg      540
gggtcttttg tgcttttgcc gtggtgctgg ctgagcccat cctgcccctac gctctggcct      600
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tggacgttgg cctgggctag ggctgagacg cttcggaccc cgggaaaggc catacgaaga      780
aacagcagtg gttggcttct atgggacaac aagcttcttt ctacacatta aaactttttt      840
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<210> 150
<211> 1465
<212> DNA
<213> Homo sapiens

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<400> 150
ggcacgagcg agccaagttt gcaccactgc actccagcct gggcgacaga gcaagactca      60
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ataaatataa taattgagag gtctgcatta gatgtggcag ggagaacaag caaaaagaga      180
tttcagagaa gatcactgga attggcagag gccttgaagg gcagagtcta gcatacagaa      240
gatgtaaaagc cacattctgt gaaggtaagt agatgtgttt acctcttttg cactgtactg      300
gtgcattatg gggtaaatrt gtattacttt tcctgtattg cttagcacag agttttgcct      360
atagcaggca ccagactgtg ggcttggtag tacatgacta ttggtgatta cagatcaaaa      420
aggacttgaa atgatcagtt taaggctctg atgggtattg aagactcaaa ggatgatggc      480
accctgggag tgatccacag aaggacagat tatttgaaga tgtaataaac taaagacaac      540
atggatgtta aatgatgaaa aaaagtttga tggaaaataa accattggat ctgcytctgg      600
agtccaagaa gaatattatt ctccctacct ccccttact ctggctcttc ctattgtagc      660
cacatgggtc agtaatgcca ttgaaaaaca aaattttaga ctaagtgggg tcgcagaaat      720
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aaagcttgat aggaaataaa catgagatag cacatggatc tattacaagt ttttgaaatt      1380
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ttaaaaaaaaa aaaaaaaaaac tcgta 1465

<210> 151  
<211> 1369  
<212> DNA  
<213> Homo sapiens

<400> 151  
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ggtgaaagta ctgaaatccc accttatgtg atgaagtgtc cgagcaatgg tttgtgtagc 180  
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caaaagaact tcatcattaa catgacttgc agatttttgc ggcagcttcc tgaaacagat 360  
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ctatattgca attggactgg aggctataag tgggtctacg ctctggctct aagcatcacc 540  
ctcgggtgggt ttggagcaga ccgtttctac ctgggccagt gsgsggaagg cctcggcaag 600  
ctcttcagct tcgggtggcct gggaaatattg acgctgatag acgtcctgct cattggagtt 660  
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<210> 152  
<211> 596  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> n equals a,t,g, or c

<220>  
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<222> (8)..(8)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (28)..(28)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (57)..(57)  
<223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (61)..(61)  
 <223> n equals a,t,g, or c

<400> 152  
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 gcaggaattc ggcacgagtc ctgacctcag gtgatccacc cacctcggct tcccaaagtg 180  
 ctaggattat aggccttgagc tactgtgccc ggcccatggt gtttttcttt agggctcttc 240  
 ctacagcctt gagaagtaga taggcatcag agtatggtac tataggaatc agaaaaattc 300  
 aaaacaaatg tggattaagt gtttaggctc tatgtggctc acgcagccag aatccttaag 360  
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 ctgggatttc agggagttcc ctcatattga aaatgagggg gtcagagcag gtgatatcca 480  
 tgtttcttcc ctttctgata ttgttgtctg tggcatattc tttgtatggc gaatttaata 540  
 aattatatta atgtgtctct ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa ctcgta 596

<210> 153  
 <211> 629  
 <212> DNA  
 <213> Homo sapiens

<400> 153  
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 gagcctcctg cacctcaaca tcacgctcac ~~cttttgggt~~ ttagcccagt gttatttagc 180  
 aaatttctcc agctgcaggg aaggatcaga gcaactatct tttttttttt ttttctcct 240  
 ggagccagga ctgcacaagg caatggccaa atttagttga attcagccta ccctccttg 300  
 ctgatgactc agctctatgc caagtactgg agccacagag atgggtcagt cccagcccct 360  
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 cttcagggct cctgggtggct gctggctcct atgggtgcct gatgtgaatt agaagacggt 480  
 gccctttcca ggtggattca gacctacact agaacgcaca gctttgggag tgacacacag 540  
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 gcagcctcga gggacacaca ggccaaagt 629

<210> 154  
 <211> 2497  
 <212> DNA  
 <213> Homo sapiens

<400> 154  
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 tctctctaca actagtcttt ctctgattgc cccgccctca acccatctaa actagacccc 180  
 agggaagcac cttgggtcccc ttctctctct ccaactacca tccaaccaat caccagagcc 240  
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 tgactgggac tccttgagcc agcctgatca ccccaatcca tccctcacac tgtgccctc 360  
 tttctgaagt aggaatctga tcacaccacc ctgctaataa cactctggtt ctccccacgg 420  
 catgtggtgc ccttgtatag ctggcaaagc cttgcatggc acggccccag cctgtgttc 480  
 aactcaattg cccgactctc tccagctctg ctgagccacc taagtcacag atggtttctc 540  
 ctctcatctc tgctctcttc catgtgccat ttctgtggct tggaatgttc ttccctcatt 600  
 ctctttctgg ccctttcccg tcacacctta gacgtgcac ttctctcga aaacctctag 660  
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acactaccca	accatcaagg	ctgagacttc	ccgtggccag	cagtgtctca	tgctggcttc	2400
aagccccaca	gcactgcttt	tttcaacttc	tcttgtgggt	tagactgtct	ttagcccagc	2460
aagagaattc	gatatcaagc	ttatcgatac	cgtcgac			2497

<210> 155  
 <211> 1217  
 <212> DNA  
 <213> Homo sapiens

<400> 155						
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aattcctttt	actattctat	acattgcaca	ttgctctggg	ggtaaaaaatc	cartataaac	240
cattagctca	ttttattgac	cattcttcta	ttcagcaagt	atcccaagta	cagtgggtcca	300
taccttgaat	tttttttcac	tttttaagtg	agatataatt	tacataccat	aacaacttag	360
tggttttcag	ttattttcaaa	tacaagggtg	twcatatatc	atcactgtct	aattccagaa	420
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atggcttttt	gtgcctgggt	tctttcactt	agcataatgt	ttttaagatt	cattcatgtt	780
gtagcattat	cagcactttg	ttctttttat	ggctaaataa	cactgcattg	tgtgsacata	840
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tcaagcttat	cgataacc					1217

<210> 156  
 <211> 1123

<212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (213)..(213)  
 <223> n equals a,t,g, or c

<400> 156  
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 agttacttga cctcagctgt tgtccagctt ccagtcttgg ggtaatggca gcttaataat 120  
 ctgaaaattg ccaagagaaa gatgtggaag gatgaaatgg aggcaacatg aatttctgtc 180  
 accttgtcat atgttctcat ttccakgcct tngnagcaag agagttaggt atatcttctg 240  
 taactcagac aattttcttc ctctttgcag aatggccct aggaatcaag gtagcttttc 300  
 ttttgaaaac ttcattgctgt ttttagtggt gatagaaagg aggtatctgc catttctgtc 360  
 acctatttta ttttggttga gcaccataa tagatcagct gtcacagcca caaatctctg 420  
 aggagactgg aatcattccc agataaatca gaaagtcaga atcatttat ggttatagtc 480  
 ctggcttctt gagagcttgt ctggaggttg tagcagggga gcacagctag tcatataccc 540  
 twgactarsg accggtctwc ctctattggg gatggttgtc ctcttctact gagcttgacg 600  
 ctttgggagg gacgcacatg gactgggtgag ggaggaaggg gacacccgcc tagccagcca 660  
 gatcagctga atcaaccctg gcaatcaatg aatggacaga tgttgacagc agatgcacct 720  
 cacatccagt cctaccttct tggtaacaaa acaattgggt ttgctggtct agaaactgta 780  
 gggctagaca tgtattatag gactggctta gggagagtta ctttatatta gcactcatgt 840  
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 aagtgtaaaag tctgctggga aagttagtgc taaaagtgt aactaaatac ttgaggcaag 1020  
 tgctttacta ggaataaac taaatatcaa gagaacaaag ataagcaatt ccttcacgat 1080  
 gttttacatg gtaaatccat acaattttta aaaaaaaaaaaa aaa 1123

<210> 157  
 <211> 3388  
 <212> DNA  
 <213> Homo sapiens

<400> 157  
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 cagcggcgcc agtgggagcg cgcccagagt cgctgggccc tccaggagct ggtgctggaa 180  
 cctgcgcaga ggcgggcgcg cctggagggg ctacgctaca cggcagtgtc gaagcagcag 240  
 gcaacgcagc actccatggc cctgctgcac tggggggcgc tgtggcgcca gctcgccagc 300  
 ccatgtgggg cctgggcgct gagggacact cccatcccc gctggaaact gtccagcgcc 360  
 gagacatatt cagcatgcg tctgaagctg gtgcccaccc atcacttcga cctcacctg 420  
 gaagccagcg ctctccgaga caatctgggt gaggttcccc tgacacccac cgaggaggcc 480  
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 ctggatgagc agcgtgagaa gctgggtgct tcggccgagt gccagctggg gacggtagt 660  
 gccgtggtcc cagggctgct ggaggtcacc acacagaatg tatacttcta cgatggcagc 720  
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<210> 158  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 158						
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ctgctggcct	acagtggcta	caaatacgtg	ggaatgatcc	tcagtgtgct	cacggggctg	240
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ccccggcagc	gtctccagct	ctacctgact	ctgggagctg	cagccttcca	gccctcatc	420
atatactggc	tgacttttcca	cctgggtccgg	tgacccccctg	gccccagatg	gcactgagtt	480
tttcattcat	tgaagatttg	atttccttga	aaaaaaaaaa	aaaaaaaaaa		529

<210> 159  
 <211> 1146  
 <212> DNA  
 <213> Homo sapiens

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<400> 159
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aaaatgagaa aggaggaggg cattgctcac ctctcaatag cttttttcgt tcaagttcta      180
tgtctttatc agctcttgcc tgtgatttta ccccaattca accttgggag tgggaagaat      240
atgaacagat aacccttggc ctaacagctc catcaaacct ccttgagagc aactacctag      300
gccaggctag tgagtgcctt gtgaggaagc tggtcagaag gttccctcaa ctcttctctg      360
gtcctcctgg acactgcaga aaagcttag gggatcccca gcagaggcca attgctctcc      420
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gggagccctt gttaaaaatg atgtttaagg gagtggttgg ggggaagatg aaggatgga      600
ggaggaagaa gagaaggaag cccttgccat ataaaattca tgcagactaa acagtttccc      660
tgacagaata aataaagtgg atgctacccc actccagaat caaaagcaat ttaattaaag      720
tctcttaagt tgtaaaagt tttaaatgat ccgtgttgaa ggcgaatsct gcyaaatgca      780
gtgggtctga cgtcagctg cgggcctggg ctgggaggcc atttgctatt ctgtttaagg      840
caggctggat tgtcttattt tgggaaccagc ttggtggggg gtttgctttg ctactgcttc      900
tgagccctga gcttcaaagg ctgaaattaa tggatgaaca aattgtgcgg ctctggccat      960
cccatgcggg caagcccatt gagggttatc attaatgaaa gaaataaagaggggggaaaaa    1020
agcctgcctg ttccaaaaac ctcatcagat aatgacctca gtgattgggt ttctattacc    1080
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aaattc                                     1146

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<210> 160
<211> 1346
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (537)..(537)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (880)..(880)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1115)..(1115)
<223> n equals a,t,g, or c

```

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<400> 160
ggcagagggt tgtgaagggt aaagttaa aa cccctctgct tagccccctgc ctccagcctc      60
tgccaggagt aatgtgctcc catagtactc tgatccactt gtatttggtg ctctcttttt      120
tttttctttt ccttccttcc tccttctctt tcccttctcty ttcctsttcc tccattcttc      180
cctccctccg tcttctcca ttcttccctc cctccctatt cctccattct tccctccctc      240
cctccctctc acatccttta ggactcagca tcacctctc taggcagtct ttcttggayt      300
accaccaytt atgcacaaaa cacctaagca ytaccttatg tggcctcatt tatcactgct      360
taaataattt ttawacacgt gctgtgatgt ggcacatgca ggtgtcattc ttgaktatcc      420
actggttatt gccttgaggg gatgacaact gcccggtagg gtwacctggg gtgactgcac      480
ctaaaacagc aataccaaaag ggcccattgc cagttctgtc actgaccagc tggggcntct      540
gagtatatcc cttaaccact ttggacctta atttggcatc tgtcaaatga gatggtggaa      600
cttgaggaaac tctaaggccc ctactgtgca ggtcttatta atgattacaa cagcagcagc      660
agccagtgtt tactgaggac ttacaaagca ccaagcactt tgcctatcct aatccttaca      720
tcaactctac gaagttagta tggttactat ccctatttta cagatgagga gactaaggct      780
aagagagggt atatgacttg accacaagt cataataaag aaacagattt gaatccaggc      840

```

attctgactt	tactgttctt	agccacataa	tgggcacasn	ttygacacac	rgttttgtgt	900
actgttttgt	ggtcactcac	agactccatc	ccagactctg	catgaaccat	ccctgttcta	960
catttttaag	gctcaaaactg	gagtctgggt	gaaacctggg	gacagaagac	tgctatagt	1020
acaattatta	gagggaaatg	ggtgaggacc	agtggccagc	tctgttcatg	aacctttgac	1080
aattctcaca	gagagtcttg	ctttggacag	agacnactta	cgttgctgtt	ttcagttacc	1140
ctcttttagga	ggggagagta	ggcctgagtc	atgcttcaga	cacagattaa	aatcagattt	1200
ggtaccagg	gcagtgggtc	agcctgtaa	tcccagcact	ttgggaggct	gagttaggag	1260
tatcacttga	ggccagaagt	ttgagagcag	cctgggcgac	atagtgagac	atcctctctc	1320
tttaaaaaaa	aaaaaaaaaa	actcga				1346

<210> 161  
 <211> 1079  
 <212> DNA  
 <213> Homo sapiens

<400> 161						
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tcacagacac	ctgtctattc	cctgaccctt	ttaaagtcta	actttctgcc	tgtaggaaat	120
cttccctttg	tgcttaggtc	tttttcttct	gtgagcttta	gataaacaac	ctagtgttta	180
aactttttta	taagggattc	ttttttaaat	acatgagaat	tcattttcaaa	attttgggtt	240
tagttattta	tttttttcta	cttggtctct	tttcagacag	atgttctctc	ctggattgta	300
aaagtccaat	tcaaaggatt	tttatttgta	atatacttaa	cctttctctt	gtaagttgcc	360
atctgtgtag	atacagcttt	gattgcctga	caagaggaaa	atgtttccca	tctcttttc	420
ctgcctgaac	tatacggcca	cttggtgttc	agcatagtgg	ttcttaacct	tcatagtgtg	480
tcagaatcac	tttgacagagc	ttttaaaaaac	tctagatgcc	tggggaccac	cccaaagact	540
ccattttgtt	gtcatgggtc	aaagcacagt	cttctagttt	gcagctagtg	ttgagtacaa	600
ctagagttta	acccagtga	attttagttt	aatcttggct	ggtcttgaag	atgttagtaa	660
tctctattca	tttttttkga	aaagtaccaa	tgaratcaga	aagttaatta	gaaaacatct	720
agttgaatcc	cctgttttta	atagatgggg	aaaccaagac	ccagagaata	taatccaaag	780
ctacctgtca	cataggccac	aatttctttt	ccaatattct	gttcttgct	gttctttctaa	840
tttgacagaac	tcctctttta	aaaacctttg	gagaatgtat	tggcctcata	ccctcttcct	900
tcagcctgaa	agacatgcac	ctgtcactta	tttatgatat	ttaaagtcaa	cctctagaac	960
aggggtgtcc	aatcttcttg	cttccctggg	ccacattgga	agaagaaatg	tcctggggcca	1020
cacataaaat	acactaatga	tagccgatga	acttaaaaaa	aaaaaaaaaa	aaactcgtta	1079

<210> 162  
 <211> 2103  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2101)..(2102)  
 <223> n equals a,t,g, or c

<400> 162						
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aaagagtggg	gagcaaagg	aggacagagc	cctttaaaaa	gaggcggtg	gtgcctgccc	120
ctttaagggc	ggggcgtccg	gacgactgta	tctgagcccc	agactgcccc	gagtttctgt	180
cgcaggctgc	gaggaaaggc	ccctaggctg	ggtctgggtg	cttggcgggc	gcggcttcct	240
ccccgctcgt	cctccccggg	cccagaggca	cctcggttcc	agtcagtctg	agcagagtat	300
ggaagcacct	gactacgaat	gctatccgtg	cgagaacagc	tattccacga	gaggatccgc	360
gagtgtatta	tatcaacact	tctgtttgca	acactgtaca	tcctctgcc	catcttcctg	420
acccgcttca	agaagcctgc	tgagttcacc	acagggtg	ctgggcgggg	tctmtgagac	480
agtgggtgatg	ttgatgctcc	tcactctgct	ggtgctagg	atgggtgtgg	tggcatcagc	540
cattgtggac	aagaacaagg	ccaacagaga	gtcactctat	gacttttggg	agtactatct	600
cccctacctc	tactcatgca	tctccttcct	tggggttctg	ctgctcctgg	ctgctggaag	660

acctggagga	gcagctgtac	tgctcagcct	ttgaggaggc	agccctgacc	cgcaggatct	720
gtaatcctac	ttcctgctgg	ctgcctttag	acatggagct	gctacacaga	caggtcctgg	780
ctctgcagac	acagagggtc	ctgctgggta	tgtggcttcg	tagggcttgg	gatacctggg	840
tttccccaag	gagagtagcc	cctgggtcca	gggtgcttgc	gacagcctcc	catccctgca	900
cagagaagag	gcggaaggct	tcagcctgkc	aacggaacct	gggctacccc	ctggctatgc	960
tgtgcttgct	ggtgctgacg	ggcctgtctg	tgtcattgt	ggccatccac	atcctggagc	1020
tgctcatcga	tgaggctgac	atgccccgag	gcatgcaggg	tacctcctta	ggccaggctc	1080
ccttctccaa	gctgggctcc	tttgggtgcc	tcattcaggt	tgtactcatc	ttttacctaa	1140
tggtgtcctc	agttgtgggc	ttctatagct	ctccactctt	cggagcctg	cggcccagat	1200
ggcacgacac	tgccatgacg	cagataaattg	ggaactgtgt	ctgtctcctg	gtcctaagct	1260
cagcacttcc	tgtcttctct	cgaactctgg	ggctcactcg	ctttgacctg	ctgggtgact	1320
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gtttgggacc	aggacctcct	gcttttccat	acttaactgt	ggcctcagca	tggggtaggg	1740
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ctgttctggg	ccatcccat	agccatgttt	acatgatttg	atgtgcaata	gggtggggta	1860
ggggcaggga	aaggactggg	ccagggcagg	ctcgggagat	agattgtctcc	cttgccctct	1920
ggcccagcag	agcctaagca	ctgtgtctatc	ctggaggggc	tttggaaccac	ctgaaagacc	1980
aaggggatag	ggaggaggag	gcttcagcca	tcagcaataa	agttgatccc	agggtttgct	2040
ttgttttttt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2100
nna						2103

<210> 163  
 <211> 1370  
 <212> DNA  
 <213> Homo sapiens

<400> 163						
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ttatatgctc	ttggaagtat	atggggactc	catttctgtc	actgtggcgatt	ccacttat	120
gcattcacca	tgccaatcca	aggcagctga	tggcttagga	aagtcagaga	ctgagatggt	180
aaaatccttg	gggctatcta	ccaacatgtc	tccattccac	ctgttagggg	taaaggtttt	240
tctaacctgg	gccctgacct	tagcacagat	ctgcctatat	ttttttgaag	ttcagccact	300
tggactatta	gcctaaact	ttttctgtac	tgccactgca	gggctgaagg	agctttgcat	360
gcacccacca	agtctggcct	tcacacctga	atttcacacc	tcgctttcac	ccttagctat	420
tccatctttc	tgtggaacat	cagtgtcact	tagcaatagc	catacaatcc	cattatcctt	480
atacctacct	ttcccttcaa	agtctcggat	gctgatata	ttgcctgc	tagtgcatc	540
actcccatta	gtacactccc	aagtccttcc	agtgaaagat	gtaacaattg	aatggccact	600
gtgccaaaagg	tgccctgggct	ctacctgcca	ccagtgatgg	ggctctcaca	gccaaaccag	660
tgggtgatca	tccatttcca	aaaccatctc	amtgcctgtt	ttcttggacc	actcctggca	720
tcaactgttt	cagggttagag	tgactgaaaa	tttgggktat	aagatattta	ttagagatca	780
atatctatta	aaaatgtgaa	aggaaagcagg	attktgtctga	ggaagaagat	aacaacaaag	840
ataccacaat	gtcagcccat	caaagccttt	ggccaaccca	gcasaaaaat	ctggagcagg	900
tgtayctttt	tcagagtctc	cccagtttag	tcaaaatgtg	cgcctttaca	cccgcacttc	960
cctcaatcac	gggcttcagg	ctgtcctggg	catgacctca	gatgaagcgg	ctcacacagc	1020
tgaggctaac	gttgctcggag	ctgacagctg	aaagccgttt	gctgaccaca	ctcccacagc	1080
cgagcagcat	gcccttgctt	ggaggaggat	ttggatgaca	cagctctatg	tctgccgtat	1140
tttgggggtc	acattcctca	cacccagctc	tgcttcaaat	ggcaacattg	acaaaaattc	1200
attccagttg	caaaccaatt	gtagaatact	ataaaaaccag	agtacaagtc	taatagcata	1260
aatctcatcc	taagtggaaa	agaaaagggtc	atttatttcac	acatttttgg	ggaaaaaaaa	1320
acaacctttg	ctatgtcttt	attacaacac	ggactcac	aaaaaatagt		1370

<210> 164

<211> 1212

<212> DNA

<213> Homo sapiens

<400> 164

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gccaagcttg gcacgargtt ggtggcggcg tccggagggtg ctggtttgtt ctcggtgaac      60
ggcgcgcggg gtctctcctg agtgcgagct acgggacctt cgccatgccg gggatgggtac      120
tcttcggccg gcgctgggcc atcgccagcg acgacttggg ttcccaggg ttcttcgagc      180
tggtcgtgcg agtgctgtgg tggattggca ttctgacgtt gtatctcatg cacagaggaa      240
agctggactg tgctgggtgga gccttgcctc gcagttactt gatcgtcctc atgattctcc      300
tggcagttgt catatgtact gtgtcagcca tatgtgtgt cagcatgaga ggaacgattt      360
gtaaccctgg accgcggaag tctatgtcta agctgcttta catccgcctg gcgctgtttt      420
ttccagagat ggtctggggc tctctggggg ctgcctgggt ggcagatggg gttcagtgcg      480
acaggacagt tgtaaacggc atcatcgcaa ccgtcgtggg cagttggatc atcatcgctg      540
ccacagtggg ttccattatc attgtctttg accctcttgg ggggaaaatg gctccatatt      600
cctctgccgg ccccgccac ctggatagtc atgattcaag ccagttactt aatggcctca      660
agacagcagc tacaagcgtg tgggaaacca gaatcaagct cttgtgctgt tgcattggga      720
aagacgacca tactcgggtt gcttytctga gtacggcaga gcttttctca acctactttt      780
cagacacaga tctggtgcc agcgacattg cggcgggcct cgccctgctt catcagcaac      840
aggacaatat caggaacaac caagacctgc ccaggtgggc tgccatgccc caggagctc      900
ccaggaagct gatctggatg cagaattaga aaactgccat cattacatgc agtttgcg      960
agcggcctat ggggtgscgc tctacatcta cagaaacccc ctcacggggc tgtgcaggay      1020
tgggtggtgac tgaaattagc tggacatggg tgcacacacc tgtaatcaca gctactcggg      1080
aggttgaggc gggagaatcg cttgaaccag ggagttggag gttgcagtga gtggagatca      1140
caccattgcc ctgcagccta agcaacagag caagattctg tctcaaaaaa aaaaaaaaaa      1200
aaaaaaaaactcg ag                                     1212
```

<210> 165

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (580)..(580)

<223> n equals a,t,g, or c

<400> 165

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cmgctrctra gcaactnagt gggatcscgc gggctgcagg aattcggcac gaggagaacg      60
gctgcacgtg ggagatgctc cgtggatgtt tgtagaacgc tggcttccgt gtttcctcgt      120
tgtggctgtg gtggtgtggg tctttgcctg tggaccctgt gaagacaaaag aagacagttt      180
tggatgggtc agctattttc ttgcttcagg gctccctccc ctgctttttg aagcctcaca      240
aaccaggact gtgagggcag gaaggcttgg ggtctttgtg tgctgagcct cattagggtt      300
ttaagaacct ccctcctttc atctctagct tacgagaggg atgattcat atcttcctc      360
ctcaggctgc agtagaagca gacagtctct gcctccctgc ttgcctttcc tccctcccat      420
tactgttgga ttattgccct caagaataac aggttgccca gctactcgag argcttaagt      480
gggaggattg cttgacccca ggagttcgag gctgcagtga gctatgatcg cttcactgcg      540
ctatagcctg gcagacacag agagacccta tctcaagcan acagacaaac aaaaaaaaaa      600
aaaaaaaaaaaa ctcgag                                     616
```

<210> 166

<211> 524

<212> DNA  
 <213> Homo sapiens

<400> 166  
 gcacagaggg cttgggtgca ggtggtttat ttgggaagtc atcctggaa atccaaaagg 60  
 aagggatgga gaagagatag aagacaagaa agaatgcatt gctcgtgggt catgggtata 120  
 gaaagtttct aggaagcttc tgcagaaccc tatgcaatgt gcctcgaatt gtccaaggaa 180  
 ttgaatgggg agctgggtgca tttgtacact acttctgttg ctactgatg ggcaacaggg 240  
 cttttatccc cagcctttcc aggcctgccc ggggagacag cagctatggg gaggcaccaa 300  
 cccatgggct gtactcattc cagaatcctt cctcccctac acgctgacag tcaattattc 360  
 accaagttgt aacttcgaat tctacttacc taaaatgcgt ttggcataca tctgcatgtc 420  
 acactcacac tgtccctatc ttggctcgaga cattataatc acttcctga actactgcag 480  
 cagcttccta gctgaactcc tggctcatct ggtctatatt gctg 524

<210> 167  
 <211> 1042  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (222)..(222)  
 <223> n equals a,t,g, or c

<400> 167  
 gaatcggcac gaggaatat tactgaatth tcttttatta tcaaatacaa atttagcata 60  
 tcctatgtaa aatgctgatt gcccttttct gcatattatt tcagatcttg ttttctatac 120  
 ccacaaggat tttctatata tttctcataa acaagagagt ccacataatt actacttacc 180  
 ttatgagtga acaaaaaaat cagcattggg ttgcgagaactncaaagttg caccgtgtgt 240  
 ggctcattag tggaaaaatg ctgctgggtg cagatataaa ggctctgac aggtggctgt 300  
 ggggccctaa tccagaatga gcacagttat ttgatcaat ggagtctaac ctagtccctc 360  
 cccaaggttc aaaatgtcct ctggtgcttg caattttctt acagtatttt tttctaattg 420  
 ataccaagct gggactctcc tggatatca tatttggaaa tgaaaagtga acaaatgag 480  
 aattttcctt ttgcgttggt gaatgcatac agtgatttaa gtttgggtgc atttctttca 540  
 gtctgttgat tgttctagga atcgatgctc acagatcaat gagtcatgtc caatttcata 600  
 aacaactgcc tggggtgagt gtggcctcat aaatgtgaac aaatagtaat ggagtggcaa 660  
 tcaaacctaa agtgttactg caaatcatgc catgctgaaa gaagaaacat ctcaaaaaga 720  
 gaataaacat ttttagggct ggggtgtggt gtcatgcct ataatatcag cactttggga 780  
 ggccaaggca gaaggattgc ttgaggctag gagttggaga ccagcctgag taacatagtg 840  
 agaccccagt cttacaaaa aaaaaaaaaa attaacaaag gattgtgggt catgcctgta 900  
 gtcttagcta ctcgggaggc tgaggaggga agacaacttt aaccggggag ttcaaggtr 960  
 cagtgtatg attgcacat cgcgttcag ccttgggtgac agagcaagac tctgtctcaa 1020  
 aaaaaaaaaa aaaaaactcg aa 1042

<210> 168  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (536)..(536)  
 <223> n equals a,t,g, or c

<400> 168  
 ggacgagtgg ggagctggaa ggaggatgga gtgggaagat aatcttccct tggagttcag 60  
 ctgtcccgtg accaaactcc tctctgtccc cagctggact cctctagatg ctgagatgct 120

ccttctcttc	tttccttctc	tgtcacacca	ttcttctgtt	ccttggctct	tctgtctatc	180
tccttgtgga	gscawaggtt	tgggggtttat	atgagtacag	gatagggtgac	atgggtggatc	240
aaaaggcaac	attttgtgtg	caaaaacagg	aatgcctgtt	cccattaggg	tcatggggttk	300
ccagggttga	gggtggggcc	tttgctaggg	aaccacccctc	ttctaccag	tattttcctg	360
tctcctgtct	gtatcaatag	gtacacaata	twattataat	taatkaatga	ctatacatta	420
tgaaatggga	aatgcaaggt	ataaaggaga	attgctgtcc	ttgaaaagaa	atttagttg	480
tttttttgtt	gagatggagt	cttgctctaa	gctagagtgc	agaatgtaat	caaggn	536

<210> 169  
 <211> 796  
 <212> DNA  
 <213> Homo sapiens

<400> 169						
ggcagcaggt	gacgtgtttc	tgcattctgtt	gccatgacaa	gctccctgct	tcacccattg	60
ctgtatcccc	agcacctctc	tcactgctg	gcaaggga	gcactcagaa	gacgctgaat	120
gaccargtag	agtgatgggt	tgtacagcac	tgttactcct	tttccatctc	tgtgtcccat	180
gtgaacctta	tggcacccat	gagaaggagc	ttgtaccagg	tttatacttt	ctagtttaca	240
gatgagaaaa	caggatcaga	gtggtacaga	tatttgtcta	agtcacagag	aaagtgaatt	300
gtaaaagcag	aaacagagca	caggctgcct	gacttctagt	ccagtgcctt	ttgctcaaat	360
tgctctttat	ttctcaggtt	attcttgaaa	tggcagatgg	ggattctgtt	taatgaaaca	420
aaagtgacaa	ttctttcttt	cttggagaga	aggtggagac	aggtctcac	tctatcacac	480
aggctggagt	gcagtggctc	aatcatggct	caatgcagcc	tcaatctcct	gggtcaagt	540
gattcttcca	ccttagcctc	cttgactcac	tgggactaca	ggtgcacacc	accatacctg	600
gctaattttt	aaagtgtttt	gtagagacag	ggtctcacta	tattgtgcat	tctggtcttg	660
aactcctggt	cccaagtgat	cttctctgct	cggttttcca	aagtgcctgga	atcacaggca	720
tcaccccat	gcctagcctg	aaaattcttt	ctatgtcctt	aacatcttct	ttcccagtat	780
ttctccatcc	actcga					796

<210> 170  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<400> 170						
ggcagcagct	cgtgccraat	tgggcacgag	ggtcatagtc	cacagaggta	aaagttaaca	60
attctgatgc	tcttgtatgt	gcataccaga	ggctctaggg	aagaattccc	tctttctttc	120
ttccaccttc	ttgtggctgc	tggcattctt	tggcttgggt	tcacatcact	cctatcttga	180
aggccagcat	cttcaaattc	gtttcttctt	cacatagcct	tctgtgtgtg	gcagtgcctc	240
tacctctctc	ttataaagac	atttgtgatt	aaatggaggg	tttaggataa	tctcgtcaag	300
atccttaact	taatcacaac	tgcaaaaacc	tctttcccaa	ataaggtaac	attcacaggt	360
tccagggatt	aggacctatt	atctttggta	agtattattc	agcctaccac	aatagctaaa	420
acaattctga	aaaagaagaa	taaagtgaga	gaaatcagtt	tatctgattt	cgatacttat	480
tgtatagcta	tggtaaataa	ggctgcatgg	tattaaagaa	aggacatata	tgaatgaaac	540
agaatagagg	accagaaaat	agaccacac	aaaggagccc	aaattatttt	taaccaaggt	600
agaagacaat	ttattggagg	aaagacagcc	tttcaacaa	atggactat	aacaattaga	660
tatccatagg	caaaaaaaaa	aaaaagaatc	ttgatctaag	gctcacacct	tatataaaat	720
aatattaac	tcatggccag	gcacagtgc	tcatgcctat	aatcccaata	cactgggagg	780
ctgaggcaag	agtatcactt	gaggccaggg	gttcaagact	agcctgggca	acacagtga	840
actctatctc	tacaaaaaaaa	ttataaaacta	gctgggcatg	gtggcacatg	cctgtagtca	900
caactactca	cgaggctgag	aagatcactt	aagctgagtt	gttcaagggt	ctaattgagct	960
acaatcgtgc	cactgcactc	cagcctaggt	gacagacaaa	gaccccatct	caaaaaaaaa	1020
aaaaaaaaaa	actcgta					1037

<210> 171  
 <211> 841  
 <212> DNA

<213> Homo sapiens

<400> 171

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<210> 172

<211> 2128

<212> DNA

<213> Homo sapiens

<400> 172

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<210> 173  
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 <212> DNA  
 <213> Homo sapiens

<400> 173						
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ttgataaatg	gcttttaaat	aataatctgg	ccggggcgag	tggctcatgc	ctgtaattcc	480
agcacttttg	gaggccaagg	gcagatcatc	tgaggtcggg	agttcgagac	cagcctgacc	540
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cctgtaatcc	cagctacttg	agaggctgag	acaggagaat	ctcttgaacc	cgggaggtgg	660
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<210> 174  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<400> 174						
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caggcagcaa	gctggaggcc	caggagggcc	ggtggtgtgg	ctgcagccag	tgtctgaagg	240
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<210> 175  
 <211> 1681  
 <212> DNA  
 <213> Homo sapiens

<400> 175						
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tgtagcatca	gggggatgga	ttttgtggcc	actgaggaga	ttgggtggtg	cccatacgag	180
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atggccaatc	tgtgctaggt	ttgctggtca	gaaagtagga	tgatatgagc	tgatatagsa	660
gagaaatata	gggtacagtt	tctaccctga	ggggctgtat	tttagttggg	gagatacatg	720
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<210> 176  
 <211> 1894  
 <212> DNA  
 <213> Homo sapiens

<400> 176						
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taataataag	aataaagatg	tattgagata	tatctagacc	taactatata	aatagacaga	600
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attccaatta	atcctcagaa	cacctgtgag	aagtatacta	aata <del>a</del> actaa	gctccatttt	840
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gtcatagcag	gatttgagcc	cagctctgtc	tgtcttcaaa	actcatgttt	aggagactct	960
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<210> 177  
 <211> 1355

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1327)..(1327)  
 <223> n equals a,t,g, or c

<400> 177  
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 catttccttt ctgtgtcctc ttctgtgac ttgaggtggg acttgggttt gaaggctttg 180  
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<210> 178  
 <211> 1382  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
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 ggctgtctg gggagaagac ccgccagctg cttgagtttg acagcaccaa cgtgtccgat 180  
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tgggacttgc	aggcctaaat	gagaggcatt	ctgactgggt	ggctgccctg	gaaggcaaga	1320
aaatagattt	atTTTTTTTc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1380
aa						1382

<210> 179  
 <211> 791  
 <212> DNA  
 <213> Homo sapiens

<400> 179						
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ttcctgggtg	tatcctatct	cttgaccctg	tgggtgggca	gcgtgggctt	catcttggcc	180
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agcggagtga	cagcaacccc	agagtgagg	caccagagag	tgccactgca	tgagacacct	660
gtgaccattc	gaagtctgaa	atgcgggggg	ggagtttcat	ttttaagtga	agacccaaaag	720
cccttttaaaa	ataatagttt	tttatcattt	tatagtataa	aaaaaaaaaa	aaaaaaaaaa	780
agggcgggccg	c					791

<210> 180  
 <211> 2163  
 <212> DNA  
 <213> Homo sapiens

<400> 180						
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ggaaccgcag	cggcggccac	ggctactggg	acggcgcgcg	ggccgcgggc	gctgaggggc	180
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ggg						263

<210> 181  
 <211> 1979  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (968)..(968)  
 <223> n equals a,t,g, or c

<400> 181	
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ttggctggct	gcgctggggc
gggtggacgt	gcagggcaac
tggacgctac	catctgctgc
ccaggctgga	gcagggcggc
ctgcgcagcc	tgtctacgtc
tcctgggctc	tgtagtggct
agcagccaat	ccgcttctca
cctccaccag	ccccagggca
caggcggtty	catccgcagg
ttcgcttacc	cccttcagca
ttccagktga	cacgcccagg
ccctgctncc	attgccacat
tggaggagca	tgctaggaaa
cagaaaggct	aaaccagaga
atctatgcta	cttttattca
aaaacgtttt	actggacatt
atataagttg	ttcattgagt
ctaattgtaa	ttatcaaagg
agtgaaaaaat	ctattttatga
agamcatttm	cttttttaaat
tacaaggtty	caataatcac
ttgtaacaca	gagtgtatgt
agactttttg	ttcagcaaca
catttatttg	taaaatgagc
mcatttagctg	tactaattat
agttcaaaagt	ctagctattg
ggctgagcgg	ggctgagcgg
tgccctcacc	gcccccgcca
tgccctcccc	ggccccctgct
ttgcracgtg	tccttgggga
cgctttccag	ctgcgtcctg
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accgccgcga	actggagcac
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ctggctggga	agagctgtcc
acaactcagt	cagatggcag
cttgtaactg	atcagtgtcw
ttctaatttg	aaagttcctg
catgtgatcatt	acaggtggag
gttttgcaaa	catgtgatcatt
ttaaagttgc	aaactggcta
gggctacatg	tttctttttc
aaataagcaa	agaaaaatac
ttaggtaaac	tttagggggc
tgaataatat	tagcatwatg
caaymaggagt	tttyccagaa
aataataact	cagacattca
ctggagggag	tatttattgc
tgacagttg	gggcttaaaa
tgtaatttaa	tgtaattacc
tttatgttaa	taataactgg
atatactctcc	agtgccctg

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aattttatgt ttgatgacta tatatttggg catatatctt gttggattag aataaataaa 1920
acactttata ttttcatgaa ctctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1979

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<210> 182
<211> 2087
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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<400> 182
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gtttctgttt tttattttta ttcccacatt gggcacaaga atcagaatat ggatagctag 180
tttaagaaac ttttgtgggt gcaactgtagc atagatgaca gaatttgatg tccccccat 240
ctccaattca gttcagggca ttccacagtt aaacagaaa gggaacgtgg ggctcttata 300
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aagcccacat agtgggaata aattgcttca gccattttta gtatttgaga gcactaggga 840
agatgtttag tagctgtgtg gatgcctttt ttcacaacct gtctattgaa tgctgcattcc 900
attcacgaag ttaaatgtta catgcagtta gtccttaatg tggactggat ctgtactttt 960
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cccctttaat cttgccattt aaattacagt agaaagacaa aatcaagtaa aataaagtgt 1260
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<210> 183
<211> 1811
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

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<222> (21)..(22)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (37)..(37)  
 <223> n equals a,t,g, or c

<400> 183  
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 agcgacatcg gacttgtgag gggggctcctg ggggtggcacc atgccaggcc caggacacag 180  
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 tgcaggagcc ctgccagcct ggctgtggct gccctggagg gcagctgctg cacaatggca 360  
 cgtgtgtgcc tcccactgcc tgcccctgca ccagcattc tctgccctgg ggcctcaccc 420  
 tgaccctgga agagcaggcc caggagctgc cccagggac tgtgctcacc cggaactgca 480  
 cccgtgtgt ctgccacggt ggagccttca gctgctccct cgttgactgt caggagtgc 540  
 ccctggggaa acgtggcagc aggtggcccc gggggagctg gggctctgcg agcagacgtg 600  
 cctggagatg aacgccacaa agaccacagag taactgcagt tcagctcgag cctcgggctg 660  
 cgtgtgccag cccgggcaact tccgcagcca ggcaggcccc tgcgtccccg aagaccactg 720  
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 caccatgtc atgccagagg agccatacct gcagagccag tgtgactgct gcagctaccg 1080  
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 actgaccagc tccttccacg ctctctcacc tgcccccaac tggggggcca tgacttggca 1740  
 ttagcatgtt ccaaataaag tgatactggc aacaaaaaaaa aaaaaaaaaa aaaaactcga 1800  
 gggggggccc g 1811

<210> 184  
 <211> 1118  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (482)..(482)  
 <223> n equals a,t,g, or c

<400> 184  
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 tggttgatct ctaaggacca ccattttgag gatctcttat aatgtatgat gacattttc 180  
 ggttcccaca ttttgctttt tctgttttgc cttttgaaa caggccatcg tcatttggtc 240  
 agttcctcct ttcttactgt ggctgtgtcc atctctaagg ggccattctt ccactctaca 300

gctcaaaaaa	gaaaatccag	gaaacagctt	cccaggcctg	ccttcctggt	ccccctcagt	360
tcccaaaaaca	cacaaaccag	gacaaaacac	cacttcagtt	ttctgcatct	tatagtctta	420
caaccttgag	tttgggagga	tcttgactca	agagtcagat	ggtgaaatat	ctagtacttg	480
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catttgggga	aaaaatttat	actatctatt	caaaagttat	atgcacttaa	tctatgactt	960
gacaattcca	tttctcatgt	tcattttgga	ggattactga	cacaatcct	atgcaagaat	1020
gtgattgata	gcattgtttt	cattttgagac	cagcctgggc	aacatagtga	gaacctgtct	1080
ctacaaaaaa	tttaaaaaaa	aaaaaaaagg	gcggccgc			1118

<210> 185  
 <211> 830  
 <212> DNA  
 <213> Homo sapiens

<400> 185						
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ttcctgtaca	tattcacact	cctgccactt	ctaccctttc	tcttatccct	ctgcttttca	120
cctctgactg	taaaaagaag	tagcagttcc	gaaagcaaga	gttccctatg	aacacggaag	180
aagacattgg	caacttttga	gtacaacaac	tatatattaat	agagaattt	aagaacatca	240
gccagtgaat	tttatacaag	atagtgaag	agaaaaggaa	gattaattag	gggtagttta	300
ggatgccatt	aaatagccta	gaattagggg	agtagtcgtt	gaatagaaag	gaggccacaa	360
atttgaggga	tataagctaa	gaattggtaa	gccaaagaag	aggaaaagg	ttgggcagta	420
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cttttttttt	ttttttgagg	caaggctctca	ctgttggttag	ggctgaacct	cctgggctca	660
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tgtgctcagt	agtttgaggc	tgtggtgagc	taagatcaca	ctgctgtgct	cacttcagcc	780
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<210> 186  
 <211> 1939  
 <212> DNA  
 <213> Homo sapiens

<400> 186						
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taaatctgat	aggtttcttt	ctctccaagg	acagcttttt	aaatatattaa	cagtatcaat	120
aattttttcag	tttctgtgag	aattttataa	tttataatt	gcagacttaa	tgtataatct	180
atttttgtcct	aacaattaca	aatatatttt	ttatttcaga	ttttatatat	tcctaccaga	240
tggagataat	tacagcttta	aaaatttttt	ttttttcatt	ttatttcaca	cattgacatt	300
aaatttttat	ggacacataa	taactgtaca	tatatatggg	gtagaatgtg	atgttttaat	360
acatgtactc	aatgtgtaat	gatcaaatca	gggtaatttg	cataatgatt	tttctgtagg	420
gagaaaaattc	aaaatctact	cttctggcta	ttttcaaata	tataatatgt	tattgttaac	480
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aggcaaccaa	ggattggaaa	tattggaaaa	aaatttgcg	tctgtactga	acatgtacag	600
actttttttct	tgtccttatt	ccttacacaa	tatagtacaa	taactatttg	catgacattt	660
acatcggata	ttatgagtga	tctagagttg	atatgaagta	tatgggagga	tgtgcaaagg	720
tgatgtgcaa	atactatgtc	attttatatc	agggacttga	gtatcctttg	ttaycctcag	780
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gtaacagcag	taatagttaa	cggagccaga	atgcttgagt	catataattg	caaagcagag	1440
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ttgtcatrtt	mctatayagc	tactgcatga	agaagagttc	ttagtgaggc	ctgggtgaac	1560
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aatagcccct	maggwaaact	aagtttttct	ctgctgtttt	tttgcttgag	agagctataa	1680
ctgtaataga	cttatatttc	tgaacatttt	agtgttgcc	aatatttggt	aatatttatg	1740
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atgsataaaa	gttcac <del>ct</del> tt	tattgtataa	aattgactca	gattaattta	tacacattga	1860
caatgggtaa	atagagtttt	tcagattatt	aaaagctgaa	ggatgcccat	gtaagcaaaa	1920
aaaaaaaaaa	aaaactcga					1939

<210> 187

<211> 739

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (649)..(649)

<223> n equals a,t,g, or c

<400> 187

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agtccaagat	gtaaaggagt	ttggaaaatg	tctaattgtg	cttttgatgt	atgtaaggga	240
aatattttaag	gcaatcctat	tgtaaatgag	agaggataaa	gggatacaat	gggagttaag	300
tgtgctgcag	ttcactcgaa	ctggtaaaa	gtcagcccca	gttg <del>g</del> atttg	ataaattatg	360
catatgccag	ctgccccagt	cacagtcttg	aagctcttgc	cccttccctg	tgtgtgtggt	420
ttaggatggg	ttcccatttg	ctgtgtttcc	atcccatctc	atctcaaggg	aaatctctgc	480
tgctcctgag	cacctcgtgt	catagatttt	atactcttac	agacttggaa	tgcagtagag	540
gtatgtggaw	ttttaggggt	ttgttttttt	aagaataagt	aacaagaaat	aacacatttc	600
ttaataatag	cttttttgac	atagttttgga	gtctgattat	atggtacant	tttctaccag	660
taatataggg	ttgcccaataa	atagaaaakg	ttttctaaaa	ataaatttta	ttacaacaaa	720
aaaaaaaaaa	aaaactcga					739

<210> 188

<211> 2410

<212> DNA

<213> Homo sapiens

<400> 188

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<400> 196

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<212> DNA

<213> Homo sapiens

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 <212> DNA  
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 <212> DNA

<213> Homo sapiens

<400> 202

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<211> 2077

<212> DNA

<213> Homo sapiens

<400> 203

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 <212> DNA  
 <213> Homo sapiens

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<211> 561

<212> DNA

<213> Homo sapiens

<400> 211

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<211> 809

<212> DNA

<213> Homo sapiens

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gtctattatt	aagtctaaca	acttagcttc	gaacctcaat	ccaagcatct	gacaacacac	540
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tatggtgaag	ccatgtctmw	actaaata	caaaattagc	cggacattgt	ggtgcacgtc	720
tgatcatcca	gcaaggcagg	cgaatcgctt	gaaccgggga	ggcggagggt	gcggtgagcc	780
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aaaaaaaaaa	aaaactcgta	g				861

<210> 220  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (587)..(587)  
 <223> n equals a,t,g, or c

<400> 220

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acagagggtc	ggatttggtc	ctagtttgct	gaaccctttt	ctagatgaag	gctcctcttg	420
ccaagactgg	ctccctaact	tggtcgacaa	attctcactt	tggtacttag	tcattgtttg	480
tgctctctgt	tattttgcat	gtcttttctc	atgttttaggt	gctgtgtctt	aatacttttt	540
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<210> 221

<211> 477

<212> DNA

<213> Homo sapiens

<400> 221

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ctagtacttc	aacatggaga	caattatctt	ttgtttttgt	ttgtttttgt	ttgtttttgt	180
ttggccatgc	ctttttgagt	ttaccttttt	atattttgtc	catcattgcc	atgtgttttg	240
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accttatcca	tgtggatttt	actcttccct	gattccctaa	attgggtttg	caaaataacta	360
ctgtgcactt	tcttgatgat	tggggtttat	ctttatgact	gtctgtktt	gtgtcagact	420
gtaaagaagt	ataaaagtct	ttagcttgaa	aaaaaaaaaa	aaaaaaaaaa	aactcga	477

<210> 222

<211> 1930

<212> DNA

<213> Homo sapiens

<400> 222

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tcagggatga	tgtctaatat	tactcaatca	cattcaagta	aaatatcagc	ctttgggtatc	180
ttcattggac	cagaacagtt	tcttttagatc	ttcttatttc	tctttcaagc	ttcaacctta	240
aataataggc	cattgtgtag	cagaaaaaac	tttaaactta	gaagtagaa	tctataatca	300
aatcctcagc	caacttaaaa	acagtttgtt	gaccttggat	aagtcaccata	gccggactgc	360
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aaaaactcga						1930

<210> 223  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (248)..(248)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1004)..(1004)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1014)..(1014)  
 <223> n equals a,t,g, or c

<400> 223						
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acgggttcgtt	ttggttctat	gtactctcta	aaatgttatc	gtttttcatt	tgtctactaa	180
ttttcgtgca	tttgttacta	ctgagtttct	taatatctga	ctggcctccg	cccacgggct	240
ctgcaganca	taaaatactc	aggctgatgg	tagtgcagag	actctccctc	cttgatcagc	300
gcaaacgttg	gtctgaggct	tgagggatgg	agcaacattt	tcttggtgtg	gtgaagcggg	360
cttggttctc	cgagaggtg	gagccagagc	cccagcctcc	acctattgtg	agttcagaag	420
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gtgattttgg	actgctttcc	agcccttgct	ggcggtctgc	cggagtctac	tggcaaaacg	540
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agccttagat	agcagcagaa	ggcttttttg	attctcctcc	ttgaaaagat	tctcagttac	960
caaacgtctc	cacctagaaa	ataaaaaatac	attaagatgt	tganaaaaaa	aaanaaaaaa	1020
a						1021

<210> 224  
 <211> 727  
 <212> DNA  
 <213> Homo sapiens

<400> 224						
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agggtgttgac	cagcaatttc	ctgcggcatt	tacttcttga	taacaagagt	gagaagatag	120

agacagggca	gatagacact	taagagtaaa	atgtattaac	acaaaggctc	tggccgcccc	180
cctacaaagg	aggccatgga	accgatggaa	ctgatggagg	aaatgctggg	actgtgggtc	240
agtgtgaca	cacccatggc	catacgtttg	gtcttcttgg	ccttggctgg	gctggtggat	300
gggaagccag	tatggatcac	cttgtggatg	gatgcaaaga	gaccaaactt	ggcgggcact	360
ggaagtacct	ggggaagcag	gagagactca	cactgctgtc	atggccccac	agcctggagc	420
ctccccctgcc	tcctctgcct	cttcagagcc	caagagaaaag	acagagaaaag	aagcctcctt	480
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gcagcaagat	tccatatgag	caaagttcag	aaagtgrgmm	aaaaggacca	agttggatct	660
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gaaagta						727

<210> 225  
 <211> 1256  
 <212> DNA  
 <213> Homo sapiens

<400> 225						
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agcagcacc	tatcccacc	ccttcctcct	ggttctcagg	cctttgtcct	tggactgagt	240
tacatcattg	tcttcgctga	ttctaaacct	tgggacttgg	actgagctac	cagcatctca	300
gggcctctag	tttgagatg	gcctgtcaag	ggacttagtc	tccaaaattg	caggagccag	360
tttcctaat	aaatcccaat	gtgatagttc	ttatcccaca	ggcccacttt	agttcagttt	420
agttttgctt	tgtttttaga	aatggggtct	tgctctgttg	cccagctgt	agtgcagtgg	480
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aaaatatttg	gttattccac	ttttcccagt	gtatagttac	cagagcaaat	gatagttccc	1200
tttgagaag	tattaaggga	tcattaacaa	atactaacia	aaaaaaaaaa	aaaaaa	1256

<210> 226  
 <211> 3466  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (3462)..(3462)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (3466)..(3466)  
 <223> n equals a,t,g, or c

<400> 226						
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ggggggtgtg	gttctgggtc	gctcagcgca	tggactgttc	cctgtgtgtc	tgtgcgtgcc	180
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cagacgtgt	cagtgaaca	caccttccct	cagagcccg	ttcctggaga	atgtggcggc	300
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gaacgcacgg	agcaaaaataa	aattttctta	gctaattcaa	aaaaaaaaaa	aaaaaaaaaa	3360
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3420
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gngggg		3466

<210> 227  
 <211> 1238  
 <212> DNA  
 <213> Homo sapiens

<400> 227  
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 gaagatgaag gtggtggagg agcccaacgc gtttgggggtg aacaaccgt tcttgctca 180  
 ggccagtcgc ctccaggcca agagggatcc ttcacccgtg tctggaccgg tgcctctctt 240  
 ccgactctcg ggcaagtgtc tcagcctggg ggagtccacg tacaagtatg agttctgccc 300  
 gttccacaac gtgaccacgc acgagcagac cttccgctgg aacgcctaca gtgggaccc 360  
 cggcatctgg cagcagtggt agatcgccaa caacaccttc acgggcatgt ggatgaggga 420  
 cggtgacgcc tgccgttccc ggagccggg gagcaagggtg gagctggcgt gtggaaaaag 480  
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 gcggcagtgg gaccaggtag agcaggacct ggccgatgag ctgatcacc cccaggggcca 660  
 tgagaagttg ctgaggacac tttttgagga tgctggctac ttaaagacc cagaagaaaa 720  
 tgaaccacc cagctggagg gaggtcctga cagcttgggg tttgagacc tggaaaactg 780  
 caggaaggct cataaagaac tctcaaagga gatcaaaagg ctgaaagggt tgctcaccca 840  
 gcacggcatc ccctacacga ggccacaga aacttccaac ttggagcact tgggccacga 900  
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 gtgacctgtt ggtgggagag cagaggtgga cgcggccgag agccctacag agaagctggc 1020  
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 gattcaaggt tttaattaat tcccatactg ataaaaataa ctccatgaat tctgtaaacc 1140  
 attgcataaa tgctatagtg taaaaaaatt taacaagtgt ttaactttaa acagttcgct 1200  
 acaagtaaat gattataaat actaaaaaaaa aaaaaaaaa 1238

<210> 228  
 <211> 1481  
 <212> DNA  
 <213> Homo sapiens

<400> 228  
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 gcctggatgt ccctgccctg gctgtggcat ggccggccca aggtctctct tctctctgc 120  
 ccttgccctg gagctcttgg gaagggctgg gggttccag ccggccctcc gggccgggg 180  
 gactgcgacg gcctgtcgcc tggacaacaa ggaaagcgag tcttgggggg ctctgctgag 240  
 cggagagcgg ctggacacct ggatctgctc cctcctgggt tccctcatgg tggggctcag 300  
 tggggctctc ccgttgcttg tcattccctt agagatgggg accatgctgc gtcagaagc 360  
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 gtttctgcat ctgctgcccg aagcctgggc ctacacgtgc agcgcagcc ctggtggtga 480  
 ggggcagagc ctgcagcagc agcaacagct ggggctgtgg gtcattgctg gcatectgac 540  
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 caacaaagac cccactgctg ctgccgccgc rctcaatgga ggccactgtc tggcccagcc 660  
 ggctgcagag cccggcctcg gtgccgtggg ccggagcacc aaagtcagcg gctacctcaa 720  
 cctgtggcc aacaccatcg ataacttcac ccacgggctg gctgtggctg ccagcttctt 780  
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<210> 229  
 <211> 1341  
 <212> DNA  
 <213> Homo sapiens

<400> 229						
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gcttctgtta	tgaagctggg	acccttagag	cctcaggatg	atcctctgtt	tgtttgtgaa	180
gccccaatca	ggtgctaagc	accatagtgg	cacttagctg	aagctcctct	gtaactcctg	240
tgggccctgc	cttgcccacc	cccgacagct	gctgcagtgc	tcctgagcag	cacaggcctg	300
atggagcttc	tggagaagat	gctggccctc	accttggcaa	aggcagattc	tcccaggact	360
gcactcctct	gctctgcctg	gctgctcact	gcctccttct	ctgcccagca	gcacaagggc	420
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gaatgagacc	tggagacaaa	gggcataatt	gttggggaaa	tggatgacag	ctgaagctat	1260
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cataaaaaaa	aaaaaaaaaa	a				1341

<210> 230  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

<400> 230						
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aggggaggaa	gacgaaggga	tgacgtgct	acagacaaag	gactccatgg	ccaagggagc	180
tagggccggg	gccakccgcg	gcagggctcg	ctggggctctg	gcctacacgc	tgctgcacaa	240
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arggcaggga	akgtcaaccc	acctgcccct	ctgtgctgag	gcatgttctt	gcctaccatc	360
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cgccacggac	ctytytgggg	agtggccgga	aagctcccs	gcctytggcc	tgccagggcag	780
cccaagtcac	gactcagacc	aggctccaca	ctgagctgcc	cacactcgag	agccagatat	840
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cttgttctcg	ag					912

<210> 231  
 <211> 839  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<400> 231  
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 tgggtgaccc cagggccacc cacagaactt tctcaaagta ttcactcctt gtccctagag 180  
 gataataatt ttctcaaacc ctggtacctt gatcgtgacc atttggaaga agaaacagcc 240  
 aaattcttca ctcaagtaca ccaagccatt aaaacgttac gagatgataa aacagtactt 300  
 ctggaagaga tctacacgca caagaatctc tttactgaga ggctgaataa gatatactgat 360  
 gggctgaagg agaagggagc cccacccctc tccatgaatg ccttcccggc tccatctcct 420  
 acttgacccc cagaacccct tggctctgtc tgccctccca gcacctagt ttctctacct 480  
 tctcaccctc cctggcagcc tgcaatgagt cctgtgccag gaaccggcgg acctccctgt 540  
 gggctgtgag tctcagcagt gctctactcc tggccatagc tggagatgtt tcttttactg 600  
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 agaggccgca gctaccaccg tcacaaagtt cactcatctc tgggtcccgg tgaccccatc 720  
 ccccatacc ctccatcctg ggtcctgggg ccccaaagct ctgaggccta ggagactgcg 780  
 ctgtctcgtg gtttgccctac tcctacacct ttgtaaagag tctcttcatt aaaacccct 839

<210> 232  
 <211> 1022  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
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 ggcgaggagg agccgccacc gcctcctcct gctgctgctg cgctacctgg tggctgcctc 120  
 gggctatcat aaggcctatg ggttttctgc cccaaaagac caacaagtag tcacagcagt 180  
 agwgtaccaa gaggctatgt tagcctgcaa aaccccaaag aagactgttt sctccagatt 240  
 agagtggaa aaactgggtc ggagtgtctc ctttgtctac tatcaacaga ctcttcaagg 300  
 tgatttttaa aatcgagctg agatgataga tttcaatata cggatcaaaa atgtgacaag 360  
 aagtgatgcg gggaaatata gttgtgaagt tagtgcccatctgagcaag gccaaaacct 420  
 ggaagaggat acagtcactc tggaagtatt agtggctcca gcagttccat catgtgaagt 480  
 accctcttct gctctgagtg gaactgtggg agagctacga tgtcaagaca aagaagggaa 540  
 tccagctcct gaatacacat ggtttaagga tggcatccgt ttgctagaaa atcccagact 600  
 tggctcccaa agcaccaaca gtcatacac aatgaatata aaaactggaa ctctgcaatt 660  
 taatactgtt tccaaactgg acaactggaga atattcctgt gaagcccgca attctgttgg 720  
 atatcgcagg tgtcctggga aacgaatgca agtagatgat ctcaacataa gtggcatcat 780  
 agcagccgta gtagttgtgg ccttagtgat ttcgtttgtt ggccttgggtg tatgctatgc 840  
 tcagaggaaa ggctactttt caaaagaaac ctcttccag aagagtaatt cttcatctaa 900  
 agccacgaca atgagtgaat atgatttcaa gcacacaaaa tcctttataa tttaaagact 960  
 ccactttaga gatacaccaa agccaccgtt gttacacaag ttattaaact attataaaac 1002  
 tc 1022

<210> 233  
 <211> 1028  
 <212> DNA  
 <213> Homo sapiens

<400> 233

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cgggctgtga	ggttcatacc	gtgctgatag	caacgtggg	gtctgtgaaa	tgtgggtaag		120
acattcaaac	ctggttttga	tactggaaac	tcttccttta	aaactgtgac	catgatttca		180
ttcagcccct	ccacacccct	atgtctgcct	tgtttcagag	tgagttttct	atggagcctg		240
tggccctttt	gcagcccacc	tgggtggcttc	ttaatgtaac	tcttcccctg	gtcgccctgga		300
gtggaccact	catctgcagg	cctctcctgc	atggggaggg	taggcaggga	gcagcatgtc		360
tgcaggggtg	aaccctttgt	cttctgtcag	gcgaggccca	ggctgcacca	gccacctgcc		420
acatggtgac	agtgccacgg	gccctgcgta	tggcccctgc	aaccgtgctc	tggcgggcac		480
acctggctgc	tgcaggccaa	ggcgcgtgt	cagtgaagag	tcccatgttt	agtatggact		540
aaagtcccat	gttttagccay	tgccccagtc	tcccgtgacc	ccagaaacca	ggtcactgga		600
ccacagtgcc	agatcctcat	cacgccggtg	agcacctaga	agtgagaaca	ctgtattcct		660
acaatgtaca	cttgatatt	tctccttatt	tagtttctag	tgaacaaaat	caagtaagga		720
actatcttta	gttttagatgg	aattatttgt	ttttaattgt	tgccgtattc	atctatatag		780
ctaataatttc	aagataagta	atgaacaaaa	cctgtctaaa	ccttttgttt	ccaatgaatg		840
aaagtcatgc	actttattta	taggctctat	gttttggctt	ctgcagtact	tttattatct		900
atacataatt	tggccaaaaa	tggaaattg	gaaagaatga	aatgtttagt	ttatagtaga		960
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gcacgtag							1028

<210> 234  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

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aaacttcctt	ctgctctttc	tggaggatct	cttttcaatt	atctattcat	catatatattc	180
ttatcttctg	tgcaacaattg	aaactcttc	tttacagcac	attcctctty	attccccatct	240
cttggtttct	gattgttctt	ggggctgtgg	ataaaaaccat	tctctgagaa	gctgataagc	300
aattggatga	gaaagargga	gargaaaact	ggcaggarga	tctggsccca	tgcccgcagc	360
cagcacatct	ctcttcagac	ctggtgaccc	cagccactgg	gaacctggga	ggaccagct	420
acagtgttgg	acactgctcg	tgccgaattc				450

<210> 235  
 <211> 1094  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

nacccattga	gcagaaggag	ggaagggtggg	aaagctcctg	ggaagagcag	ccagactgga	60
cactgggctg	cttgagtcct	gagtcacaat	tcagaattcc	tgggctccct	gggtgcattc	120
tatcattcca	gttgaaaagt	tgcttccttc	cagtcatgtg	gctcttcatt	ctactctcct	180
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acacggcttc	tgccatctgc	aactacaatg	cccactacaa	gaatcacccc	aaatactggg	300
gccgaggcta	tttccgtgac	tactgcaaca	tcatgcctt	ctcccctaac	agcaccaatc	360
atgtggccct	gaggacaca	gggaaccagc	tcattgtcac	tatgtcctgc	ctgaccaaag	420
aggacacggg	ctggtactgg	tgtggcatcc	agcgggactt	tgccagggat	gacatggatt	480
ttacagagct	gattgtaact	gacgacaaa	gaaccctggc	caatgacttt	tggctctggga	540
aagacctatc	aggcaacaaa	accagaagct	gcaaggctcc	caaagtgtgc	cgcaaggctg	600
accgctccag	gacgtccatt	ctcatcattt	gcatactgat	cacgggttg	ggaatcatct	660
ctgtaatcag	tcatttgacc	aaaaggagga	gaagtcaaag	gaatagaagg	gtaggcaaca	720

ctttgaagcc	cttctcgcgt	gtcctgactc	caaaggaaat	ggctcctact	gaacagatgt	780
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caactggccc	acacctcaga	gactgattct	gatctcccag	gaattctgaa	ggaccctcta	900
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gaccacaccc	aagcaaggct	gccctcaaat	aacatctcaa	gatcttagtt	cttatgcatt	1020
ccatcagtca	gaagtgaaga	agagggtggag	aatctggatt	gggaccagg	aaatcacttg	1080
tattttgtta	gccca					1094

<210> 236  
 <211> 808  
 <212> DNA  
 <213> Homo sapiens

<400> 236						
tgcaggaatt	cggcacgaga	ttacaacaca	tcagaacaaa	atgttatgga	ctaccatgga	60
gcagaaatcg	tgagccttcg	tttgctgtca	ctagtaaaag	aagaatttct	ttttctcagc	120
cccaacctag	attcacatgg	actgaaatgt	gcatcttctc	ctcatgggct	ggttatgggt	180
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gagacattgc	tgaacaaaag	agaactgggt	ttacctgacc	ctctaaagcg	ctaagtactg	540
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ttacatatca	tgtgaatact	tacctatttc	tacccgatt	gcagcaagta	ttctgaaagc	720
ttaatgcaaa	taaatccac	tttagatctt	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	780
aaaaaaaaa	aaaaaaaaa	aaaaaac				808

<210> 237  
 <211> 1898  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1398)..(1398)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1428)..(1428)  
 <223> n equals a,t,g, or c

<400> 237						
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tcccagttgc	agaaagcaga	aatctgtata	tatttgcgga	tgaattacat	ctgggaatgg	180
gctgccctgc	aaatcggata	catacatatg	tatatgagtt	tatatatctt	gttcgtgatt	240
gtggcatcag	gacaagggtg	gtttctgagg	aaactctcct	ttttcaaacc	gagctgtat	300
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cttttattgc	tgactttcag	acaacagcag	aagagttagg	attattatct	tctagtccaa	480
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aaacagtttc	attttttcat	agcaaaaaata	tagttgggtg	atatctctcc	ttaagtctct	600
ggtttctaaa	aaccctactt	cagtaaaagt	cctgattagt	tgattagtga	atgtgtat	660
ctaaatat	gtattcagta	ggggatatggc	tgattaat	aacattaact	ataggtaat	720

tcatattata	catttaagtt	ctttctgttc	tgtgtagaag	attcagaaat	atgtcttcaa	780
agacaatgac	ttgatctaatt	tgataagaac	ctccaataaa	tatgttctaa	tatttttccag	840
gaagaataaaa	gaatagagag	agacatataa	atgtgcaaga	ggcaaaaactt	tgagcatagt	900
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attcatgtag	attttcctat	taatcagtaa	agttgaatcc	taacaataat	gccatgtgac	1020
aacctatttta	gattattcca	gaattaaatt	caattttattt	tctagagctc	aagtaaccac	1080
tactttaact	gaaatttgat	gttaggtttc	ccttggttctt	ccgaatggt	cttccacact	1140
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cattaaatga	ttattttatta	ccacctactt	tatactatct	tcctttcttt	aaacatggag	1260
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aaatcatttg	cctgagtcac	ataacttggt	gggtgtgggt	caagatttaa	aatagggcaa	1740
tctgccttta	gatctgtctc	tatactctct	ctttgtatat	tagccactat	actctactgc	1800
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ttataacaact	ctcaataaaa	cttaagttg	aaaaaaaa			1898

<210> 238  
 <211> 818  
 <212> DNA  
 <213> Homo sapiens

<400> 238						
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gcagttttga	gagccctggt	tctgccttgt	atcattttcc	actgtgtatc	kgattctagg	180
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tgggagacca	aggcaggcag	atcacttgag	gtcagggtgt	cgagaacagc	ctggccaaca	600
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gactctgtct	caaaaaaaaa	aaaaaaaaaa	aactcgag			818

<210> 239  
 <211> 1558  
 <212> DNA  
 <213> Homo sapiens

<400> 239						
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<211> 3435

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (760)..(760)

<223> n equals a,t,g, or c

<400> 240

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 <212> DNA  
 <213> Homo sapiens

<400> 241						
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<210> 242  
 <211> 652  
 <212> DNA  
 <213> Homo sapiens

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<210> 243  
 <211> 1711  
 <212> DNA  
 <213> Homo sapiens

<400> 243						
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<210> 244  
 <211> 2058  
 <212> DNA  
 <213> Homo sapiens

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<210> 245  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<400> 245						
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aggggagttt gaggtgttaa aaaaaaaaaa aaaaaaaaaa actcgag 407

<210> 246  
<211> 675  
<212> DNA  
<213> Homo sapiens

<400> 246  
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<211> 975

<212> DNA

<213> Homo sapiens

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<211> 1505

<212> DNA

<213> Homo sapiens

<400> 249

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 <212> DNA  
 <213> Homo sapiens

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<210> 252

<211> 3308

<212> DNA

<213> Homo sapiens

<400> 252

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aaaggccttc	ccagaccaat	tagcatgtcc	tgcagctgtc	agctccctgt	gcctgcctg	540
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<210> 259

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (356)..(356)

<223> n equals a,t,g, or c

<400> 259

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aaaaaaagaa	aa					1752

<210> 260

<211> 1669

<212> DNA

<213> Homo sapiens

<400> 260

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aatggacggg ttctgggaga ccagatggtc tcagacactg agctccagga aatgtccacc      180
gaggggagta agtacattaa tcgggaaatt aaaaatgctc tcaagggggg gaagcagata      240
aagacactaa tagaacaac aaacgaggag cgcaaattccc tgctcaccaa cttggaagaa      300
gccaaagaaga agaaagagga tgccctgaat gacaccaagg attcagaaat gaagctgaag      360
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caggacagtt tcgaccgggc atccagcctc atggatgagc tgttccagga cagattcttc      660
accctgtagg cccaggaccc tttccacttc tcacccttca gctcattcca gcggaggcct      720
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<210> 261

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 261

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ttcttctctg cctggcttgt gaagaacgtg tttattgctg ttatcattga aacatttgca      180
gaaatcagag tacagtttca acaaatgtgg ggatcgagaa gcagcactac ctcaacagcc      240
accacccaga tgtttcatga agatgctgct ggagggttgg agctggtagc tgtggatgtc      300
aacaagcccc agggacgcgc cccagcctgc ctccaggtgc agtacaatga cattttttaa      360
aatcgcccag caaaggctct tgaattttat ttcatccaag aaaatccaca gctctttaag      420
ctctagattt gtccaaattt aaaatcctga agtttagagat ggtattcac tccttccctc      480
attcccagga cctagctttt tttttttaac atacacaata gggatttgat aagtttctga      540
tggctgcagg catgtaagag catttcagtg gtattgaatc aatgaagaat ttgttgaca      600
tgtgaaatct tataaaaata ttctttaccg aaggactgag ttatgtggca gtgggtacat      660
tcattgtttc atccctcccc tagtaactgg gataaatatg ttgatacata gtctctctgt      720
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<210> 262  
 <211> 2709  
 <212> DNA  
 <213> Homo sapiens

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<400> 262
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gaaaaagagg acctctcaga aaactcacia tctagcatga ttaagcatgt cgcttggtcta      180
atcttcacca attgcatctt tttctgccct gtggcggttt tttcatttgc accattgatc      240
actgcaatct ctatcagccc cgaaataatg aagtctgtta ctctgatatt ttttccatgc      300
ctgcttgccct gaatccagtc ctgtatgttt tcttcaaccc aaagtttaaa gaagactgga      360
agttactgaa gcgacgtgtt accaagaaaa gtggatcagt ttcagtttcc atcagtagcc      420
aagggtggtt tctggaacag gatttctact acgactgtgg catgtactca catttgagg      480
gcaacctgac tgtttgcgac tgctgcgaat cgtttctttt aacaaagcca gtatcatgca      540
aacacttgat aaaatcacac agctgtcctg cattggcagt ggcttcttgc caaagacctg      600
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tcatttaaaa actagaataa cagatatata aaagtgttaa tctttgtgct atatggtatg     2640
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aaaaaaaaa                                     2709

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<210> 263  
 <211> 1380  
 <212> DNA

<213> Homo sapiens

<400> 263

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tctcgctct	agccatgggg	tccgcagcgt	tggagatcct	gggcctggtg	ctgtgcctgg	180
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<210> 264

<211> 813

<212> DNA

<213> Homo sapiens

<400> 264

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<210> 265

<211> 2288

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266

<211> 3758

<212> DNA

<213> Homo sapiens

<400> 266

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<210> 267  
 <211> 1534  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature

<222> (1212)..(1212)  
 <223> n equals a,t,g, or c

<400> 267

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<210> 268  
 <211> 2664  
 <212> DNA  
 <213> Homo sapiens

<400> 268

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<210> 269

<211> 1076

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1029)..(1029)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1037)..(1037)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1040)..(1040)

<223> n equals a,t,g, or c

<400> 269

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<210> 270  
 <211> 943  
 <212> DNA  
 <213> Homo sapiens

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 <211> 941  
 <212> DNA  
 <213> Homo sapiens

<400> 271						
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<210> 272  
 <211> 988

<212> DNA  
<213> Homo sapiens

<400> 272  
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aaaaaaaaaa aaaaaaaaaa aactcgag 988

<210> 273  
<211> 1566  
<212> DNA  
<213> Homo sapiens

<400> 273  
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<210> 274

<211> 1067  
 <212> DNA  
 <213> Homo sapiens

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<400> 274
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<210> 275  
 <211> 2078  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1187)..(1187)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2057)..(2057)  
 <223> n equals a,t,g, or c

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<210> 276

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (920)..(920)

<223> n equals a,t,g, or c

<400> 276

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<210> 277  
 <211> 845  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (4)..(5)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (845)..(845)  
 <223> n equals a,t,g, or c

<400> 277						
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tccan                                                                    845

<210> 278
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)..(3)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (8)..(8)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (566)..(566)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (680)..(680)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (684)..(684)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (703)..(703)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (715)..(715)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (717)..(717)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (731)..(731)
<223> n equals a,t,g, or c

<400> 278

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<220>  
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aacctctgca	ggtcctggaa
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<210> 282  
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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1556)..(1556)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

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 <211> 587  
 <212> DNA  
 <213> Homo sapiens

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<210> 284  
 <211> 2921  
 <212> DNA  
 <213> Homo sapiens

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<210> 285  
 <211> 1259  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> n equals a,t,g, or c

<400> 285						
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<210> 286  
 <211> 1314  
 <212> DNA  
 <213> Homo sapiens

<400> 286						
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<210> 287

<211> 2042

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (2001)..(2001)

<223> n equals a,t,g, or c

<400> 287

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tgwctcwcag	tcagagcwgg	gtcccggcct	gygttcagga	ttttgaaaca	tttgtawggt	480
gattttgttg	tttctacacc	tttctcctca	tctttttttt	ttttagtata	atcgttacta	540
ataacagaaa	agacattttt	ggcatggtaa	ttggcacaaa	gtgaataatt	gttgaataga	600
tgactttttga	ggcttttcaa	attcgagtgt	ccataaaatc	catccagagc	cacctgggtc	660
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tacaactgat	cacatgtaac	cattgttttg	tatgtagttc	tgtctagctt	tttttttttt	1920
ttaacctttt	taactgcata	ttagagcagg	atgaaacttt	agaggttact	caatctttta	1980
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gg						2042

<210> 288  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 288						
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ggtcattgtt	gttrtaatct	gggggtacct	tttgggaagg	catgggggtac	ccttttgcaa	180
aagttatggg	ccctmtcctt	ggaaactgca	cacacaccat	gcagcttaca	attcaggggag	240
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cagtggga						308

<210> 289  
 <211> 1568  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1550)..(1550)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1564)..(1564)  
 <223> n equals a,t,g, or c

<400> 289						
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gtcatacaat	cagtaagtgg	caggcaagga	ctgaaatcca	agttgttacc	ctccaaagtc	180
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gctttaatat	tccggtcttt	attgatecct	ctcttctcta	aamcttcagc	tgtcagtata	300
aaaatcaagg	aatttagcmc	ttgttattgt	gtgamcagct	tcttgtctct	cctgtactgt	360
aagtgggtct	agggattttt	attcttttaa	tatccccctg	tactcagtag	atctttggga	420
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agtcctttct	tggctggaac	aaatactaca	gcctgctcaa	ctagctaata	tgtattgagt	600
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ccccacaggc	cacctggccc	accttatggg	ctgaggaggg	cttgatgggc	ggaggsaagc	1500
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<210> 290  
 <211> 865  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<400> 290						
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tggtctcaaa	ctcctgacct	caagcagtc	tcctgtcttg	gcctctggaa	atgctgggat	180
tacaggcgtg	agccactgtg	ctggcctctt	ttttcttttt	cttttttttt	aaggttttta	240
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ccctggctgg	tttcttttcc	tttctctcct	tttctctact	ttgggtgtctg	gagcatttc	420
ccagactcca	gtttcttacc	accctcacgg	attttgctat	tgtattatca	cctcctttat	480
cattcccaaa	attgacttta	tgagactca	ttaaaagaaa	gaatcatcgg	ccgggagcgt	540
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<210> 291  
 <211> 1687  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1568)..(1568)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1652)..(1652)  
 <223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1654)..(1654)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1660)..(1661)
<223> n equals a,t,g, or c

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<400> 291
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ttttctatga ccacagagct ccgacctgga agatggctca cccaggaggt cccaggagct      300
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aaaaaaaaa                                     1687

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<210> 292
<211> 570
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (5)..(5)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (16)..(16)
<223> n equals a,t,g, or c

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<220>  
 <221> misc\_feature  
 <222> (496)..(496)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (523)..(523)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (531)..(531)  
 <223> n equals a,t,g, or c

<400> 292  
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 cacgcgtccg ggcagtgggg tgagggcaca caagcagttc aggggtcccag caggaagtgg 120  
 ggctgcaggg ccgggggtggg tcctgggcct ggccatcagg cagcctagca ggttggtctg 180  
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 ttwctatgac cacagagctc cgacctgga gatggctcac ccaggaggtc ccaggagctc 360  
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<210> 293  
 <211> 1752  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1099)..(1099)  
 <223> n equals a,t,g, or c

<400> 293  
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 aacatctgcc ccttcaggna ggacccccgc gcacaccaga acctctggca agccgcccga 1140

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<210> 294
<211> 536
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (508)..(508)
<223> n equals a,t,g, or c

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<400> 294
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tattgataca atttcacctc taaaatggat ttgaagaaat gcaactttat atcaaaaaat 180
gtcatctgat ttcctttgtt tcttttttaa attatgtaat cagatgattt tatgtttttt 240
tttcagggga gcggaatatt ggtttctttt acttggtgtt ttcagttttc tctgccattc 300
atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaaggat tttaaaatac 360
caaactgtaa ctgagtacag tggatcgttt tctgttagga tgtaaatatt atacaatgaa 420
atctataaag tggtgtcaat ttgattattg acacatataa catgtttaca aataaactgt 480
ggtattgatc aaaaaaaaaa aaaaaaanc cggggggggc cccggaacct aatccc 536

```

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<210> 295
<211> 427
<212> DNA
<213> Homo sapiens

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<400> 295
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gacgctatga gagggcgctc cagggcccag cctcccacag ccgtttcagc agggacaggg 240
gctgaacagg ccctattcca gcccccttgc ttcactctac cggacagacg gcagcagtc 300
cagctctggt ttccttctcg gtttattctg ttagaatgaa atgggtccca taaataaggg 360
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aaaaaaaaa 427

```

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<210> 296
<211> 2409
<212> DNA
<213> Homo sapiens

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<220>
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<222> (694)..(694)
<223> n equals a,t,g, or c

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<220>  
 <221> misc\_feature  
 <222> (716)..(716)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (755)..(755)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (761)..(761)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (791)..(791)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (808)..(808)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (880)..(880)  
 <223> n equals a,t,g, or c

<400> 296  
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aaaaaaaaaa						2409

<210> 297  
 <211> 737  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (369)..(369)  
 <223> n equals a,t,g, or c

<400> 297		
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ccaccaggg	acctaata	737

<210> 298  
 <211> 1471  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (798)..(798)  
 <223> n equals a,t,g, or c

<400> 298  
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 caagtggcgt cgcggtagcc ccttaccggg caaaggcccc gttgggggtc tgttgcgggc 420  
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<210> 299  
 <211> 2227  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (289)..(289)  
 <223> n equals a,t,g, or c

<400> 299  
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aaaaaaa						2227

<210> 300

<211> 2214

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (289)..(289)

<223> n equals a,t,g, or c

<400> 300

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<210> 301  
 <211> 1145  
 <212> DNA  
 <213> Homo sapiens

<400> 301						
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tgcagaactg	atgtgggtca	ggcaccctgg	ttttaattcc	ttgaggatct	ggcaattggc	180
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ttgaacagca	gcgtttcata	ggaagagaaa	aaaagatcaa	tttgtattt	tctgaccaca	1080
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aaaaa						1145

<210> 302  
 <211> 1165  
 <212> DNA  
 <213> Homo sapiens

<400> 302						
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caagtttcca	gctcgggttt	ccaggctcag	aattttccag	gagttaggtc	ttgggcagtg	120
gctgtgggag	ctggaatggc	gcagctggaa	ggttactatt	tctcgccgcg	cttgagctgt	180
accttttttag	tatcctgcct	cctcttctcc	gccttcagccg	ggcggttgcg	agagccctac	240
atggacgaga	tcttccacct	gcctcaggcg	cagcgctact	gtgagggcca	tttctccctt	300
tcccagtggg	atcccatgat	tactacatta	cctggcttgt	acctgggtgc	aattggagtg	360
atcaaacctg	ccatttggat	ctttggatgg	tctgaacatg	ttgtctgctc	cattgggatg	420

ctcagatttg	ttaatcttct	cttcagtgtt	ggcaacttct	atttactata	tttgcttttc	480
tgcaaggtac	aaccacagaaa	caaggctgcc	tcaagtatcc	agagagtctt	gtcaacatta	540
acactagcag	tatttccaac	actttatttt	tttaacttcc	tttattatac	agaagcagga	600
tctatgtttt	ttactctttt	tgcgtatttg	atgtgctttt	atggaaatca	taaaacttca	660
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tgtgcaggaa	atgtcattgc	acaaaagtta	acggaggctt	ggaaaactga	gctacaaaag	780
aaggaagaca	gacttccacc	tattaaagga	ccatttgcag	aattcagaaa	aattcttcag	840
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tcatttactc	tctttttttc	ctttcctcat	ctcctgtctc	aacaaataaa	taaataaaca	1080
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acaaaataaa	aaaaaaaaaa	aaaaa				1165

<210> 303  
 <211> 1160  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (345)..(345)  
 <223> n equals a,t,g, or c

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ccagctcggg	tttccrggct	cagaattttc	caggagtrgg	ttcttgggca	gtggctgtgg	120
gagcwggaat	ggcgcagctr	garggtact	rtttctcggc	cgccttgagc	tgtacctttt	180
tagtrtcctg	cctcctcttc	tccgccttca	gccgggcgyt	gcgagagccc	tacatggacg	240
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gggatcccat	gattactaca	ttacctggct	tgtacctggt	gtcanttgga	gtgrtcaac	360
ctgccatttg	gatctttgga	tggctctgaac	atgttgtctg	ctccattggg	atgctcagat	420
ttgttaatat	tctcttcagt	gttggcaact	tctatttact	atatttgctt	ttctgcaagt	480
acaacccaga	aacaaggctg	cctcaagtat	ccagagagtc	ttgtcaacat	taacactagc	540
agtatattcca	acactttatt	tttttaacty	cctttattat	acagaagcag	gatctatgtt	600
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tggattttgt	ggcttcatgt	ttcggcaaac	aaatatcatc	tgggctgtct	tctgtgcagg	720
aaatgtcatt	gcacaaaagt	taacggaggc	ttggaaaact	gagctacaaa	gaaggaaga	780
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ggcttattcc	atgtccttta	aaaacttgag	tatgcttttg	cttctgactt	ggccctacat	900
ccttctggga	tttctgtttt	gtgcttttgt	agtagttaat	ggtggaattg	ttattggcga	960
tcggagtagt	catgaagcct	gtcttcattt	tcctcaacta	ttctactttt	tttcatttac	1020
tctctttttt	tcctttcctc	atctcctgtc	tcaacaaata	aataaaataa	cataaatgca	1080
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aaaaaaaaaa	aaaaaaactc					1160

<210> 304  
 <211> 802  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (337)..(337)  
 <223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (359)..(359)  
 <223> n equals a,t,g, or c

<400> 304  
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 cccatcatgc acagatcaga gccatttctg aaaatgtcgc tgctgattct gcttttcctg 120  
 ggattggcag aagcctgtac tcctcgtgaa gtcaacttgc tgaaagggat cataggtctc 180  
 atgagcagac tgtcaccgga tgagatccta ggcttgctgagcctccaagt actgcatgaa 240  
 gaaacaagtg gctgcaagga ggaagttaaa ccttctcag gcaccacccc atccaggaaa 300  
 ccaactccca agaggggaaga acacgtggaa yttcctngaa atgcsctac atgggtgrtng 360  
 acctacctct tcgtatccta caacaaaggg gactggttca ctttttcctc ccaagtgtta 420  
 ctgccaytac tgtaacttgg aactggacat cagggatgat ccctgctgtt ctttctagt 480  
 agcctgctcc atctcagctt agccttcaca aggcctccat ctcccaggca ttctaacctc 540  
 tgaagaaagc tctctgtccc ctggactgcc tgtgtggagg gtaatgaact gggtccttta 600  
 aggaatggca cctgggtgcc cagaggcatg gccagaggt gtctgtgggg gccatgcctt 660  
 agggggatgc acccagggcg gctgagagag caactgcagg agtttcccct aaaatctctc 720  
 ctccagatcg ttctcgaact ttcccacta cttccataat aaaatgtata cttgttgaaa 780  
 aaaaaaaaaa aaaaaactcg ag 802

<210> 305  
 <211> 559  
 <212> DNA  
 <213> Homo sapiens

<400> 305  
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 ctctcctttt ttacattgta tggactttgt atgtgaagc ttcattcagc ctctccttgg 120  
 ttcacattgt tattgttaat atcattatct ttgtgtcgt tttattgtca gtctacaaat 180  
 tagatattat tattgttttt gttttatata ggcaacattt atctggattt gcatagatgt 240  
 ttaccatttt ctttactcag tgttttatca aatacatcct ttaggaattc ctttaatttg 300  
 gtctcttggt ggcrtatgtt cagttttcat ttgtctatta aatgtttatc acttttttcg 360  
 tgataggttg ttctgctggg ttcacaattt taggttgcca gttctgtttt tttgtttgtt 420  
 tgtttgtttg acacttgga gatattatc tagtgtctc aatattctgt ctttgggtctt 480  
 tggtcattct aattacctt tctttgtata tgatctgtcc cttctccatg gcttctttta 540  
 aaatcttctc tttatcttt 559

<210> 306  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (171)..(172)  
 <223> n equals a,t,g, or c

<400> 306  
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 tgtgacagtg ggaaatcatt agtgacttag aaattccagt tggtcattgg gccaatattg 120  
 atgctacctt ctctctttta ttctcactt taaaataaaa ttgcaaaaag nnaaaaatta 180  
 aatatagtat gagtccagtt actggcctaa ggagctaaaa gcattctggg tttgtatgaa 240

gacagctgag	ttataacaaa	tgagagtact	gttgtgtgac	tgcattaatt	attccctttt	300
taaatgtaca	agagcaaggc	attctacctg	actgtgttat	tgagctctgc	agcatacatg	360
tgacagagct	aaaacaaaca	agcaaacaaa	agaaaccaca	gctttaggat	actctgttca	420
tgaatatagc	ctgaaaatga	taatcaagaa	gtaaactttt	accagtatta	aggaacatta	480
agctgcctat	ctctcagtga	atttcagaat	gatattttta	aagttagttt	aggctgggca	540
ctgtagctca	tgcctataat	cccagcactt	tgagaggcag	aggccaaggc	aggaggatca	600
cttgagcccc	ggattttgag	accagcctgg	gcaacatagc	aagacactgt	ctctaaaaaa	660
aaaaaaaaaa	gggcggcc					678

<210> 307  
 <211> 1042  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (941)..(941)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1016)..(1016)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1022)..(1022)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1028)..(1028)  
 <223> n equals a,t,g, or c

<400> 307	
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gctttcttct	atctcttgtg gatattatgg caataacac arcaagttta gggagtccat 120
ggccagaaaa	cttttgggag gaccttatca tgcctttcac tgtatccatg gcaatcgggc 180
tggtacttgg	aggatttatt tgggctgtgt tcatttgtct gtctcgaaga agaagagcca 240
gtgctcccat	ctcacagtgg agttcaagca ggagatctag gtcttcttac acccacggcc 300
tcaacagaac	tggattttac cgccacagtg gctgtgaacg tcgaagcaac ctgagcctgg 360
ccagtctcac	cttcacagca caagcttccc tggacaagc aaattccttt ccaagaaaat 420
caagtttcag	agcttctact ttccatccct ttctgcaatg tccaccactt cctgtggaaa 480
ctgagagtca	gctggtgact ctccctttt ccaatatctc tcccaccatc agcacttccc 540
acagctctgag	ccgtcctgac tactgggtcca gtaacagtct tcgagtgggc ctttcaacac 600
cgccccacc	tgcctatgag tccatcatca aggcattccc agattcctga gtagggtggc 660
ttttggtttt	tgtttctttc ttgtcttgtc ttttattgaa aggaaatcaa aaataggta 720

aacagaat	ttt	tgagg	catg	gcccc	aaataa	ctcat	gagtt	ccaagt	tgaa	acatg	gttgt	780
gcaagtt	gga	cattaca	atg	taaaac	acat	tttctt	caaa	cacgtttt	cc	ctttt	gtttc	840
aaaaaat	gta	atatttt	ccc	ccaagc	gttt	tatattt	atg	tatttt	gtat	tcaat	gtgag	900
gcttatt	aaa	aatag	tgatt	taaat	gtaag	aatcag	ctaa	ngatg	catta	tatat	at	960
aattaaa	att	aaaact	tcag	awattt	gkgy	gattaca	atc	ccawtt	acyt	cccaan	gggg	1020
cnttaa	angg	gggg	aaaaaa	aa								1042

<210> 308  
 <211> 1556  
 <212> DNA  
 <213> Homo sapiens

<400>	308											
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aatccaca	aaa	acatttt	c	aaa	agaaat	acatt	aaaa	ag	tctcc	agttt	ttgctt	120
ttcacatt	ttc	atacact	cac	a	atattt	tagg	aaatag	tcat	tttgact	gtc	ttataa	180
gataaggg	tg	cagcaaca	at	tctgcc	agat	ggttaa	aatgc	cccagag	gat	ttctg	ctctt	240
ctcttcct	aa	tttggg	agct	ataaag	cagt	ttttact	ccc	aacacaa	att	cttgata	aaaa	300
accatact	ct	ttgctg	attt	ttcatg	ttag	acatt	aa	gga	tgacat	gcaa	gtaaaa	360
aaaaaaaa	aaa	agtag	cc	ctgata	ccaa	gttaat	attc	ccttgaa	acc	tactt	gggct	420
gctaaaty	tc	tttggt	tgaaa	accaact	ttat	aacaa	attg	ttatcc	ggtt	agcttt	ttttc	480
cctttttc	tt	ccatttt	ctt	cttgct	ccct	ctttct	ctta	cttttt	ctt	ttggc	atggt	540
taattaga	ga	acatttt	cta	taagc	attat	taaga	ataat	tgtcct	taag	gaatg	atgga	600
taataaag	g	gaaatg	aaaa	taataa	agaa	aatg	ctacat	ggaat	ctctt	attctt	ggaac	660
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gcattctt	cc	ttacaag	ggc	agccac	ctgt	ggaagt	ggat	tcttaa	ataa	ctgtg	tgac	960
caaagacc	at	ctggc	atggc	ttaat	cactg	tacag	actct	gcagag	aagt	tggaatt	gag	1020
attcgtag	ag	aagcaa	acca	ggaat	gatgc	ctgat	gatta	agagt	caatc	cagga	aggag	1080
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tttgtctg	ca	aagtt	acaaa	agaag	atccc	cagaga	aagt	gcttt	ccaag	ttgct	atgatg	1200
taagttta	ag	aaagaaa	attt	ttccct	ttaa	gaaaa	acgtg	agctt	ggttt	t	aaactt	1260
gcttgttt	ttt	aggtc	aaaatg	aattg	gattt	tttcct	ggtt	ctttt	ctaac	aatg	taacga	1320
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gtagata	act	attctt	ggga	aaaac	acata	aagag	tttgt	ccagaa	aaaaa	ttagt	gtcaa	1440
aaatgaa	aca	tccaat	gaca	ccaaa	agagt	tcagt	tttct	gtgctt	gagt	cccac	acttc	1500
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<210> 309  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

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<222> (584)..(584)
<223> n equals a,t,g, or c

<400> 309
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aaagactcgg ctttcaagga gcctaaatgt gtagaaaagg actaaggcaa aacaataact      120
tttttgagct cttgccatgt gtgaagcact ttatacacct gtaaggtagg taacgttggt      180
cttattaaac atgaagaaaa tgagactttg tgagaagcaa tacagtatag aagttaagaa      240
tatggactct aaagctagat ttcagagggt tgaagtagct ctgctactta ctggctgtgt      300
gactttgagc agattactta acctgtctgt gcctatgttt acttttattg ttgtaaaaag      360
atatgcaaca taaaatatcc catttcaacc gtttttacgt gtataacttca ctgacattag      420
ttgcattcac tatgttgtgc aaacgtaggg tcgctatgaa gattaaatga gttaattcat      480
ataaagccct cagaagagtg tctggcacat ggtgagtatt ggctgtactg tggctgatgt      540
cattgttaga gagctttagt gatttgctta agacagaaag gtanactggg gtgcggtggg      600
ctcacgccct ggtta                                     615

<210> 310
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (345)..(345)
<223> n equals a,t,g, or c

<400> 310
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cataccctct accgtggaca ccaggcagcc ctggggctga tggagagaga tcaggatatc      120
cccagggagt aggggctacc ttgaggggat gatagacctc cccactccc agtgkkactc      180
tggaatatg aaggaactag ggagtggaag agatttcaga gctggggaga ggagttcctc      240
ccttcaaagc cagcaactgc ctttggggaa tgtcgggggg tctctccttt ctctgcttg      300
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tcagctttcc cttggggcag gatcgggggc agcagctcca gcagaaacag caggatctgg      420
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tgggtggtaaa gtggagcaat cccttcacgc tccttggcca tgttctgagc ggccagcttg      660
gcctttgcct taataaatgt gctttatttt caaaaaaaaaa aaaaaaaaaa t          711

<210> 311
<211> 553
<212> DNA
<213> Homo sapiens

<400> 311
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agaagccatc aatgagagga tccaggaggt cgccggctcc ctaatattta ggggaataag      180
cagcattggc ctggagtgcc agagcgtcac ctccaggggg gacctggcta cttgcccccg      240
aggcttcgcc gtcaccggct gcacttgttg ctccgctgtg ggctcgtggg atgtgcgcgc      300
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gagggttgcg ggggagctgg aaataaacct ggagatgatg atgatgatga tgatggaaaa      480
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<210> 312
<211> 1614
<212> DNA
<213> Homo sapiens

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gggccggcac cagcattttg tggttacgaa ttctacagtc acaaatatct ttgggcaaatt      180
ccccttctat acctcaaggc agcttttggg ttgcaacccc actggccaga gggaaagggcc      240
agtcacttgg ctctctcact gccctgcgcc ccagatgggt ctagggctgc tgttttccct      300
tggccctgcc aacaccactg tttttacttc tgctcattgg ctgagtga tggttcctgg      360
aagccagtgg cagctttccc cgcgtagctc gcttatccca cagcacacac ccaaggggtc      420
tgttgctaac acgctgaatt aattctttgc tcatcttaca gagtgtgttt tgactgcccc      480
catttctgag gccttgtaag gccagagctt tgttgcttca tcggcaggtt gggacttaga      540
tggccgtgaa tgtttcctct ctgctgctgc agtaagtaag tgcccgcacc atagtgtgtt      600
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agaaatgggg ggctgattct gctcagattc atcaggatga gtagaaggca cccagctctc      900
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gggccctccc tccatggcag ccaggacagg actctaaaat gaggacagca gagctcgtgg     1080
ggggctccca cggacccgcc gtgggccag gggaggcaga gcctgagcca acagcagtgg     1140
tgctgtggac cgtggatcct gaggggtggc tggggagat accggctgag ggtccagggt     1200
ggctttgtgt accttgggt cctggggccc tggtgacttg gactccaggt tagagtcaag     1260
tgacaggaga aaggctgggt gggccctgtg ctccgactt catttcgagt gatggcagtt     1320
cccagggaagg aatccacagc tgacgggtgc tgacagatca gagaatggaa ggcgaggcag     1380
gcgggcgtct gcgtgacctc aggtgcttgg ggcccagcag acccagagaa ccatttccac     1440
taggccaggg tgccggaagt gtccacaggt cttagattcc ctgttcagat gaaaagattt     1500
gtgcctttaa tgataaaaagt gatctgcata gagtcaaaaa ttcaagccat ggtataaaaa     1560
tgcaagtaaa atccctgccc tcacctatcc caccctacta cacagagatg tcct          1614

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<210> 313
<211> 1087
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (55)..(55)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (63)..(64)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (174)..(174)

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<223> n equals a,t,g, or c

<400> 313

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caagttaaag taangtggcc ccggcaacca ataagtgttg tttttggaag ggctngaaag      60
ttnnaaagcg agggccttgta aaggggaaga tgggaccgtt gtgaagggaag gatgattggg      120
gctttgaagc aaaagtgggg gaaggggggca aaggcagttg gcccaacaca ttcnccaccc      180
ctttgagagg tctgaggcct gcagacctgg ctcgagagccc acctggtagt cctcagactg      240
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtaaa agaggaagt      300
tgtggagaaa tgggggggctg attctgctca gattcatcag gatgagtaga aggcacccag      360
ctctcaccct ggccctgacat gtgtgtccct gagcaggtta cagkcctctc tgagcctctg      420
cttcccctct ggaccctgct gggcagggct tctragctcc ttagcactag caggagggggc      480
tccagggggc ctccctccat ggcagccagg acaggactct aaaatgagga cagcagagct      540
cgtggggggc tcccacggac ccgccktggg cccaggggag gcagagcctg agccaacagc      600
agtgggtgctg tggaccgtgg atcctgaggg tggcctgggg caagtaccgg ctgagggtcc      660
agggtggcct tgggtacctt tgggtcctgg ggccctgggt acttggactccaggttagag      720
tcaagtgaca ggagaaaggc tgggtggggc ctgtgcttcc gacttcattt cgagtgatgg      780
cagttcccag gaaggaatcc acagctgacg gtggctgaca gatcagagaa tgggaaggcga      840
ggcagggcgg cgtctgcgtg acctcaggtg cttggggccc agcagaccca gagaaccatt      900
tccactaggg cagggtgccg gaagtgtcca caggtcttag attccctgtt cagatgaaaa      960
gatttgtgcc tttaatgata aaagtgatct gcatagagtc aaaaattcaa gccatgggta     1020
taaaatgtca agtaaaatcc ctgccctcac ctatcccacc ctactacaca gagatgtcct     1080
ctcgagg                                           1087
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<210> 314

<211> 1191

<212> DNA

<213> Homo sapiens

<400> 314

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gctgggctgg aacacaagar cccacagggc tgcggtccac actctcccgg tcagagtccct      60
gggaccacat ggggacgctg ccatggcttc ttgccttctt cattctgggt ctccaggctt      120
gggatactcc caccatcgtc tcccgcaagg agtggggggc aagaccgctc gcctgcaggg      180
ccctgctgac cctgcctgtg gcctacatca tcacagacca gctcccaggg atgcagtgcc      240
agcagcagag cgtttgcagc cagatgctgc gggggttgca gtccattcc gtctacacca      300
taggctgggt cgacgtggcg tacaacttcc tgggtgggga tgaggcagg gtgtatgaag      360
gtgttggtg tggttgctg ggcttgaca cccagggcta caacaacatt tccctgggca      420
tcgccttctt tggcaataag ataagcagca gtcccagccc tgctgcctta tcagctgcag      480
agggtctgat ctctatgccc atccagaagg gtcacctgtc gcccagggtat attcagccac      540
ttcttctgaa agaagagacc tgcctggacc ctcaacatcc agtgatgccc agraagggtt      600
gcccacacat catcaaacga tctgcttggg aagccagaga gacacactgc cctaaaatga      660
acctcccagc caaatatgtc atcatcatcc acaccgctgg cacaagctgc actgtatcca      720
cagactgcca gactgtcgtc cgaaacatac agtccttba catggacaca cggaactttt      780
gtgacattgg atatcaataa ggccaggcgt ggcggcgatt acgtctgtaa tcccaggact      840
ttgggaggcc aaggcgggca gatcacttca ggccaggaat tcaagagcag cctggccaat      900
atggcgaaac tctgtctcta ctgaaaacaa acaaacaaaac aaacaaacaa acaagaaac      960
aacaataaatt agccgggtgt ggtggcacac gcctgtagtc ccagctactc aggaggctga     1020
ggcataagaa ttgcttgaac cctggaggcg gaggttgtag tgagctgaga ttggggccacc     1080
gcactccagt ctgggagaca gagtgaact gtctcaaaac aacaacaaaa aaatccctaa     1140
cataatctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcgggccg c              1191
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<210> 315

<211> 1626

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (525)..(525)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (542)..(542)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (562)..(562)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (607)..(607)  
 <223> n equals a,t,g, or c

<400> 315  
 ccacgcgtcc gacgcggcgc acgcggcagc cctgatggcc cgccatgggt taccgctgct 60  
 gccctgctg tcgctcctgg tcggcgcggt gctcaagcta ggaaatggac aggctactag 120  
 catggtccaa ctgcagggtg ggagattcct gatgggaaca aattctccag acagcagaga 180  
 tggatgaagg cctgtgcggg aggcgacagt gaaaccctt gccatcgaca ttttcctgt 240  
 caccaacaaa gatttcaggg attttgtcag ggagaaaaag tatcggacag agctgagat 300  
 gtttgatgg agctttgtct ttgaggactt tgtctctgat gagctgagaa acaaagccac 360  
 ccagccaatg aagctctgtac tctgggtggc tccagtggaa aaggcatttt ggaggcagcc 420  
 tgcaggctct ggctctggca tccgagagag actggagcac ccagtgttac acgtgagctg 480  
 gratgacgcc cgtgøtaat gtgcytkgsg ggggraaacg actgnccac sggaggggag 540  
 antggggagt ttttcgccc gnaggggggc ttgaarggtc caagtttacc ccatgggggg 600  
 aactgaattc cagccaaacc gcaccaacct gtggcaggga aagttcccca agggagacaa 660  
 agctgaggat ggcttccatg gagtctcccc agtgaatgct ttcccgccc agaacaacta 720  
 cgggctctat gacctcctgg ggaacgtgtg ggagtggaca gcatcacctg accaggctgc 780  
 tgagcaggac atgcgcgtcc tccggggggc atcctggatc gacacagctg atggctctgc 840  
 caatcaccgg gcccggtca ccaccaggat gggcaacact ccagattcag cctcagacaa 900  
 cctcggtttc cgtgtgtctg cagacgcagg ccggccgcca ggggagctgt aagcagccgg 960  
 gtggtgacaa ggagaaaagc cttctagggt cactgtcatt ccctggccat gttgcaaaca 1020  
 gcgcaattcc aagctcgaga gcttcagcct caggaaagaa cttccccttc cctgtctccc 1080  
 atccctctgt ggcaggcgcc tctcaccagg gcaggagaggactcagcctc ctgtgttttg 1140  
 gagaaggggg ccaatgtgtg ttgacgatgg ctggggggcca ggtgtttctg ttagaggcca 1200  
 agtattattg acacaggatt gcaaacacac aaacaatttg aacagagcac tctgaaaggc 1260  
 catttttttaa gcatttttaa atctattctc tcccccttc tccctggatg attcaggaag 1320  
 ctgmacattg tttcctcaag gcagaatttt cctggttctg ttttctcagc cagttgtctg 1380  
 ggaaggagaa tgctttcttt gtggcctcat ctgtggtttc gtgtccctct gaaggaaact 1440  
 agtttccact gtgtaacagg cagacatgta actattttaa gcacagttca gtcctaaaag 1500  
 ggtctgggag aaccagatga tgtactaggt gaagøttgc attgtgggaa tcacaaagca 1560  
 aatagtactc cagaaagacc ctgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620  
 aaaaaa 1626

<210> 316  
 <211> 2351  
 <212> DNA  
 <213> Homo sapiens

<400> 316  
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 gagctgttcg taaagtcgcc cgacagcttt ttctccgtag tatgcgagtt gacaaaacag 120  
 ccagagaaca gggctcccca ttacaatctt ttcgagatct tttcccttgc taaccggatc 180

tgattttgtgc	gaaaacatgc	cttgcacttg	tacdggagg	aactggagac	agtggattcg	240
accttttagta	gcggtcatct	acctgggtgc	aatagtgggt	gcggttcccc	tatgcgtgtg	300
ggaattacag	aaactggagg	ttggaataca	caccaaggct	tggttttattg	ctggaatctt	360
tttgctgtga	ctatttcctat	atcactgtgg	gtgatattgc	aacacttagt	gcattataca	420
caacctgaac	tacaaaaacc	aataataagg	attctttggg	atggtacctt	tttacagttt	480
tagatagttg	gatagctttg	aaatatcccg	gaattgcaat	atatgtggat	acctgcagag	540
aatgctatga	agcttatgta	atttacaact	ttatgggatt	ccttaccaat	tatctaacta	600
accggtatcc	aaatctggta	ttaatccttg	aagccaaaaga	tcaacagaaa	catttccctc	660
ctttatgttg	ctgtccacca	tgggctatgg	gagaagtatt	gctgttttagg	tgcaaaactaa	720
gtgtattaca	gtacacagtt	gtcagacctt	tcaccaccat	cgttgcttta	atctgtgagc	780
tgcttggtat	atatgacgaa	gggaacttta	gcttttcaaa	tgcttggact	tatttggtta	840
taataaacia	catgtcacag	ttgtttgcca	tgtattgtct	cctgctcttt	tataaagtac	900
taaaagaaga	actgagccca	atccaacctg	ttggcaaatt	tctttgtgta	aagctgggtg	960
tttttgtttc	tttttgattt	ggcgtttacc	ttttcctaac	atataggcaa	gcagtagtta	1020
ttgctttgtt	ggtaaaagtt	gggtttattt	ctgaaaagca	tacgtgggaa	tggcaaaactg	1080
tagaagctgt	ggccaccgga	ctccaggatt	ttattatctg	tattgagatg	ttcctcgctg	1140
ccattgctca	tcattacaca	ttctcatata	aaccatatgt	ccaagaagca	gaagaggctg	1200
catgctttga	ttcctttctt	gccatgtggg	atgtctcaga	tattagagat	gatattctg	1260
aacaagtaag	gcattgttga	cggacagtca	ggggacatcc	caggaaaaaa	ttgtttcccg	1320
aggatcaaga	tcaaaatgaa	catacaagtt	tattatcatc	atcatcacia	gatgcaattt	1380
ccattgcttc	ttctatgcca	ccttcaccca	tgggtcacta	ccaagggttt	ggacacactg	1440
tgactcccca	gactacacct	accacagcta	agatatctga	tgaaatcctt	agtgatacta	1500
taggagagaa	aaaagaacct	tcagataaat	ccgtggattc	ctgaacagta	tggaaaagca	1560
aactgtgcaa	ctactacatt	atatcattac	ctgggtatccc	atggattttg	tgcttgggac	1620
agaccataaa	tgatggaaaa	tgtcaacaca	aaaatagctg	aaagccagtg	acaactactg	1680
cattttatata	tgtaagtttt	gtatatcaaa	aataattggg	ctaaatttcc	tagacttaga	1740
cttgattttct	taacattagg	gtatcgcata	ctcaaattgg	agacaatgac	cccaactaaa	1800
tcttctctgat	gttacactgc	tttatcaaga	ggatggactt	tttttttttt	gagacagaca	1860
gagtctttgct	ctgtcaccca	ggctggagtg	cagtggcgca	atctcgggtc	actgcaagct	1920
ctgcctccca	agttcatgcc	attctcctgc	ctcagccctc	ccaagtagct	gggactacag	1980
gcacctgcca	ccatgccag	ctaatttttt	ttttttcagt	agagacaggg	tctcaccatg	2040
ttagccagga	tgggtcttgat	ctgacctcgt	gatccgcgca	cctggcctc	ccaaagtgtc	2100
ggaattacag	gcgtgagcca	ctgcgcctgg	ccaagaatgg	acatttttta	aaaaaacatc	2160
agtacttcct	accactgctg	catgagtata	atgctccgga	attatcagaa	agcataatgc	2220
agaaatacga	attagtggaa	cttaatcatg	tgccatataa	gcttacctaa	caaacagtta	2280
tatccctatt	cctcaactga	atgtctttca	ataaataaga	atttatcatt	taaaaaaaaa	2340
aaaaaaaaaa	a					2351

<210> 317  
 <211> 1001  
 <212> DNA  
 <213> Homo sapiens

<400> 317						
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aggatatagga	agaatgcgta	tcttttctatc	tattacttaa	tccagttctg	tggccactct	120
tggatatttta	caaatatgac	agtcagattc	ttttcatttg	gaaaaggtaa	aactccgaaa	180
cagttttttt	atttttaact	tttaatcctt	gttttcacct	catcctgctt	atattaaatt	240
tctacacacc	tcaacctttc	accacgggat	acagattcaa	tggttgacac	tttttatgct	300
attggacttg	tgtatgcgact	ttgccaatcc	gtatctctcc	tggaaactgct	gcacatatat	360
gttggcattg	agtcaaacca	tcttctccca	aggtttttgc	agctcacaga	aagaataatc	420
atcctttttg	tgggtgatcac	cagtcaagag	gaagtcag	agaaatatgt	ggtgtgtgtt	480
ttattcgtct	tttggaaatct	attggatatg	gttaggtaca	cttatagcat	gttatcagtc	540
ataggaatat	cctatgctgt	cttgacatgg	ctcagtcaaa	cactatggat	gccaatttat	600
cctttgtgtg	ttcttgctga	agcattttgcc	atctatcaat	cgctgcctta	ttttgaatca	660
tttggcactt	attccaccaa	gctgcccttt	gacttatcca	tctatttccc	atatgtgctg	720
aaaatatatc	tcattgatgct	ctttataggt	atgtatttta	cctacagtca	tctatactca	780

kaaagaagag	acatcctcgg	aatctttccc	attaaaaaaaa	agaagatgtg	aagtacagca	840
ttccagtgtg	acacgagaaa	agacaggctg	tgatttcagt	gcagtaaata	aaacacagga	900
agtatttctgg	tggaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaar	aaaraaaaaa	aawaaaaaaaa	960
aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	a		1001

<210> 318  
 <211> 669  
 <212> DNA  
 <213> Homo sapiens

<400> 318						
ccacgcgtcc	ggacactttt	tatgctattg	gacttgtgat	gcgactttgc	caatccgtat	60
ctctcctgga	actgctgcac	atataatgtt	gcattgagtc	aaaccatctt	ctcccaaggt	120
ttttgcagct	cacagaaaaga	ataatcatcc	tttttgtggt	gatcaccagt	caagagggaag	180
tccaagagaa	atatgtgggtg	tgtgttttat	tcgcttttg	gaatctattg	gatatgggta	240
ggtacactta	tagcatgtta	tcagtcatag	gaatatacta	tgctgtcttg	acatgggctc	300
agtcaaacac	tatggatgcc	aatttatcct	ttgtgtgttc	ttgctgaagc	atttgccatc	360
tatcaatcgc	tggcttattt	tgaatcattt	ggcacttatt	ccaccaagct	gccctttgac	420
ttatccatct	atttcccata	tgtgctgaaa	atataatctca	tgatgctctt	tataggtatg	480
tattttacct	acagtcacat	atactcagaa	agaagagaca	tcctcggaat	ctttcccatt	540
aaaaaaaaaga	agatgtgaag	tacagcattc	cagtgtgaca	cgagaaaaga	caggctgtgg	600
attcagtgcg	gtaataaaaa	cacaggaagt	attctggtgg	aaaaaaaaaaa	aaaaaaaaaaa	660
aaaaaaaaaaa						669

<210> 319  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<400> 319						
ccacgcgtcc	gtcctcttag	aggctccaca	tgaagtccca	gtgctacagt	cctagttatt	60
ttgccttctt	ctgcctgggt	ttctttcaga	tcacctcagc	cagttctcag	acacttaggg	120
gacatgttct	ctgcaggacc	actctgaggg	actcttctgc	atattgctga	cctgagagga	180
tggcctcaga	gctgacttgg	gcaatcctcc	ccaacaggaa	ggggagacat	tgcttgccac	240
tgaggaaaaca	ggtcatgaag	gtggagataa	gctgcaaggg	gcgaagcaac	tttatgtcag	300
tggaaaacgt	gtctctttaa	agctgctatg	tgaacagctt	ttacagtcac	taaattttacc	360
taaactaagg	ttaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaa	417

<210> 320  
 <211> 1949  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1130)..(1130)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1948)..(1948)  
 <223> n equals a,t,g, or c

<400> 320						
gctacgcgt	gggcacttcc	tcaacgacct	gtgcgcgtcc	atgtggttca	cctacctgct	60
gctctacctg	cactcgggtg	gcgcctacag	ctcccgcggc	gcgggctgct	gctgctgctg	120
ggccagggtg	cgacgggctg	tgcacaccgc	tcgtgggcta	cgaggccgac	cgcgccgcca	180

gctgctgcgc	ccgctacggc	ccgcgcgaagg	cctggcacct	ggtcggcacc	gtctgcgtcc	240
tgtgtccctt	cccccttcac	ttcagccccct	gcctgggctg	tggggcgcc	acgccgagtg	300
ggctgccctc	ctctactacg	gcccgttcat	cgtgatcttc	cagtttggt	gggcctccac	360
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gctcacggca	ctcaggtatg	cgttcaccgt	ggtaggccaac	atcacccgtct	acggcgccgc	480
ctggctcctg	ctgcacctgc	agggctcgtc	gcgggtggag	cccacccaag	acatcagcat	540
cagcgaccag	ctggggggcc	aggacgtgcc	cgtgttccgg	aacctgtccc	tgtgtgtggt	600
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gctgctctg	aagcactggc	tccgggagcc	ggctttctac	caggtgggca	tactgtacat	780
gaccaccagg	ctcatcgtga	acctgtccca	gacctacatg	gcatgtacc	tcacctactc	840
gctccacctg	cccaagaagt	tcattcgcgac	cattccccctg	gtgatgtacc	tcagcggtt	900
cttgtccctc	ttcctcatga	agcccatcaa	caagtgcatt	gggaggaaca	tgacctactt	960
ctcaggcctc	ctggtgatcc	tggcctttgc	cgctgggtg	gcgctggcgg	agggactggg	1020
tgtggccctg	taygcctgg	ctgtgctgct	gggtgctggc	tgtgccacca	tcctcgtcac	1080
ctcgtgggcc	atgacggccg	acctcatcgg	tccccacg	aacagcggan	ckttcgtgta	1140
cggctccatg	agcttcttgg	ataagggtggc	caatgggctg	gcagtcatgg	ccatccagag	1200
cctgcaccct	tggccctcag	agctctgctg	cagggcctgc	gtgagctttt	accactgggc	1260
gatggtggct	gtgacggcg	gcgtgggcgt	ggcctgctgc	ctgtgtctct	gtagcctcct	1320
gctgtggccg	acccgcctgc	gacgctggga	ccgtgatgcc	cggccctgac	tcctgacagc	1380
ctcctgcacc	tgtgcaagg	aactgtgggg	acgcacgagg	atgcccccca	gggccttggg	1440
gaaaagcccc	cactgccct	cactcttctc	tggaccccc	ccctccatcc	tcaccagct	1500
cccggggggtg	gggtcgggtg	agggcagcag	ggatgcccgc	cagggaactg	caaggacccc	1560
ctgggttttg	aggggtgtcc	attctcaact	ctaateccatc	ccagccctct	ggaggatttg	1620
gggtgccct	ctcggcagg	aacaggaagt	aggaatccca	gaagggtctg	ggggaaccct	1680
aacctgagc	tcagtccagt	tcacccctca	cctccagcct	gggggtctcc	agacactgcc	1740
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tggacccac	cgtggtgggc	agcagggtg	cccggcaggc	ttggtggact	ctgctggcag	1860
caataaaaga	gatgacggca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1920
aaaaaaaaaa	aggggggggg	gcta	gtn			1949

<210> 321  
 <211> 1487  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (78)..(78)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (948)..(948)  
 <223> n equals a,t,g, or c

<400> 321						
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ccgcctggct	cctgctgnca	cctgcaggct	cgtcgcgggt	ggagcccacc	caagacatca	120
gcacagcgca	ccagctgggg	ggccaggacg	tggccgtggt	ccggaacctg	tcctgtctgg	180
tgggtgggtg	cggcgcctg	ttctcactgc	tattccacct	gggcacccgg	gagaggcgcc	240
ggccgcatgc	ggasgagcca	ggcgagcaca	ccccctgtt	ggccctgcc	acggcccagc	300
ccctgctgct	ctggaagcac	tggctccggg	agcsggcttt	ctaccagggtg	ggcatactgt	360
acatgaccac	caggctcatc	gtgaacctgt	cccagacct	catggccatg	acctcacct	420
actcgtcca	cctgcccagg	aagttcatcg	cgaccattcc	cctgggtgatg	tacctcagcg	480
gcttcttgtc	ctccttctc	atgaagccca	tcaacaagt	cattgggagg	aacatgacct	540
acttctcagg	cctcctggtg	atcctggcct	ttgccgctg	ggtggcgctg	gcggagggac	600

tgggtgtggc	cgtgtacgca	gcggtgtgtgc	tgctgggtgc	tggctgtgcc	accatcctcg	660
tcacctcgct	ggccatgacg	gccgacctca	tcggtcccca	cacgaacagc	ggagckttcg	720
tgtacggctc	catgagcttc	ttggataagg	tggccaatgg	gctggcagtc	atggccatcc	780
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tcttgcctgtg	gccgaccgcg	ctgcgacgct	gatgagacct	gcacgcantg	gctcacagca	960
gcacgatttg	tgacagcccc	aggcggagaa	caccgaacac	ccagtgaagg	tgaggggatc	1020
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cgaagctctg	acccaggcca	cagtgcggat	gcaccttgag	gatgtcacgc	tcagtgaag	1140
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gactaggtga	cataatgggg	acagggctgc	cttctgggtg	atgagaatgt	tctggaatca	1320
gatgggatgg	ctgcacggcg	tggtgaagg	actgaacgcc	acctcactgt	aagacggtag	1380
attttgtatt	ttaccacaat	aaacaaaaca	aaacaaaacc	aaaaaaaaaa	aaaaaaaaaa	1440
aaaaaaaaag	aattcgatat	caagcttatt	gataccgtcg	acctcga		1487

<210> 322

<211> 1525

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<400> 322

ccgctgctga	taactatggc	atcccccg	cctgcagga	ttcggcacgg	agctacggcg	60
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gcacagcgca	ccagctgggg	ggccaggacg	tgcccgtgtt	ccggaacctg	tccctgctgg	180
tggtgggtgt	cggcgcgctg	ttctcactgc	tattccacct	gggcacccgg	gagagggcgc	240
ggccgcatgc	ggasgagcca	ggcgagcaca	ccccctgtt	ggcccctgcc	acggcccagc	300
ccctgctgct	ctggaagcac	tggtccggg	agcsggcttt	ctaccagggtg	ggcatactgt	360
acatgaccac	caggctcatc	gtgaacctgt	cccagacct	catggccatg	tacctcacct	420
actcgctcca	cctgcccagg	aagttcatcg	cgaccattcc	cctgggtgatg	tacctcagcg	480
gcttcttgtc	ctccttcttc	atgaagccca	tcaacaagt	cattggggagg	aacatgacct	540
acttctcagg	cctcctgggtg	atcctggcct	ttgcccgtg	ggtggcgctg	gcggagggac	600
tggtgtgtggc	cgtgtacgca	gcggtgtgtc	tgctgggtgc	tggtgtgtgc	accatcctcg	660
tcacctcgct	ggccatgacg	gccgacctca	tcggtcccca	cacgaacagc	ggactkctgt	720
gtacggctcc	atgagcttct	tggtataagg	ggccaatggg	ctggcagtc	tggtccatcca	780
gagcctgcac	ccttgcccc	cagagctctg	ctgcaggggc	tgctgtagct	tttaccactg	840
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gctcccgggg	gtgggggtcg	gtgagggcag	cagggatgcc	cgccagggac	ttgcaaggac	1140
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ttgggggtgcc	cctctcggca	gggaacagga	agtaggaatc	ccagaagggt	ctgggggaac	1260
cctaaccctg	agctcagtec	agttcacccc	tcacctccag	cctgggggtgc	tccagacact	1320
gccaggggccc	cctcaggacg	gctggagcct	ggaggagaca	gccacggggg	ggtgggctgg	1380
gcttggaacc	caccgtgggtg	ggcagcaggg	ctgcccggca	ggcttggtgg	actctgctgg	1440
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aaaaaaaaaa	aaaccaccgc	tccgc				1525

<210> 323

<211> 1050

<212> DNA

<213> Homo sapiens

<400> 323

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gggtcgccgc	tgctctgggg	gcgcggggcc	gggggcgtcg	gccttttggt	gctgctgctg	120
ctcggcctgt	ttcggccgcc	ccccgcgctc	tgcgcgcggc	cggtaaagga	gccccgcggc	180
ctaagcgcag	cgtctccgcc	cttggtctaga	ctggcgctcc	tcgccgcttc	cggcgggtcag	240
tgccccgagg	tgaggcggcg	ggggcggtgc	agacctggcg	cgggcgctgg	cgatctgct	300
ggagccgaac	gtcaggagcg	ggcgcgggcc	gaggcgcaga	ggctgaggat	cagcaggcgc	360
gcgtcctggc	gcagctgctg	cgcgtctggg	gcgcccccg	caactctgat	ccggctctgg	420
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gccttgaccc	tgccgæcta	gcagcccagc	ttgtccccgc	gcccgtcccc	gccgcggcgc	540
tccgaccccc	gcccccggtc	tacgacgacg	gccccgcggg	cccggatgct	gaggaggcag	600
gcgacgagac	acccgacgtg	gaccccgagc	tgttgaggta	cttgctggga	cggattcttg	660
cgggaagcgc	ggactccgag	gggttggcag	ccccgcgccg	cctccgcgt	gccgcgcgac	720
acgatgtggg	ctctgagctg	ccccctgagg	gcgtgctggg	ggcgctgctg	cgtgtgaaac	780
gcctagagac	ccggcgcccc	cagggtgctg	cacgcgcct	cttgccaccc	tgagcactgc	840
ccgatcccg	tgcaccctgg	gacccagaag	tgcccccgcc	atcccgccac	caggactgct	900
ccccgccagc	acgtccagag	caacttacc	cggccagcca	gccctctcac	ccgaggatcc	960
ctacccccctg	gccccacaat	aaacatgatc	tgaagcagca	aaaaaaaaaa	aaaaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				1050

<210> 324

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n equals a,t,g, or c

<400> 324

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ggagccctgg	ctgggtgcgg	ctcgctcttt	gcctgacggg	cttagtgctc	tcgctctacg	120
cgctgcacgt	gaaggcggcg	cgcgcccggg	accgggatta	ccgcgcgctc	tgcgacgtgg	180
gcaccgccat	cagctgttcg	cgcgtctttc	cctccagggt	gcctgsggac	acgctgggcc	240
tctgtmctga	tgctgctgag	ctccctgggtg	tctctcgctg	gttctgtcta	cctggsctgg	300
atcctgtttc	tcgtgctcta	tgawtttctg	cattgtttgta	aatcaccacc	tatgctatca	360
acgtgacctg	atgtggctca	gtttccggaa	ggtccaagaa	ccccagggca	aggctaagag	420
gcaactgagc	ctcaacccaa	gccaggctga	cctcatctgc	tttgcttttg	catgtgagcc	480
ttgcctaagg	gggcataatc	gggtccctag	aaggccctag	atgtggggct	tctagattac	540
cccctcctcc	tgccataccc	gcacatgaca	atggaccaa	tgtgccacac	gctcgctctt	600
ttttacaccc	agtgcctctg	actctgtccc	catgggctgg	tctccaaagc	tctttccatt	660
gcccagggag	ggaaggttct	gagcaataaa	gtttcttaga	tcaaaaaaaaa	aaaaaaaaaa	720

<210> 325

<211> 990

<212> DNA

<213> Homo sapiens

<400> 325

gcatgccagt	gcctactctg	tgccctgctgt	gggcoctggc	aatggtgacc	cggcctgcct	60
cagcggcccc	catggscggc	ccagaactgg	cacagcatga	ggagctgacc	ctgctcttcc	120
acgggaccct	gcagctgggc	caggccctca	acgggtgtga	caggaccacg	gagggacggc	180
tgacaaaagg	caggaacagc	ctgggtctct	atggcgcgac	aatagaactc	ctggggcagg	240
aggctcagccg	gggcggggat	gcagcccagg	aacttcgggc	aagcctgttg	gagactcaga	300

tggaggagga	tattctgcag	ctgcaggcag	aggccacagc	tgagggtgctg	ggggagggtgg	360
cccaggcaca	gaagggtgcta	cgggacagcg	tkca <del>g</del> gggct	agaagtccag	ytragragcg	420
cctgggtggg	ccctgcctac	cgagaatttg	aggtcttaaa	ggctcacgct	gacaagcaag	480
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agcagcatcg	gctgcgacag	atccaggaga	ggtgagcctg	gcagggggtt	ggcaggcagg	600
gcagttggat	ggggggcgca	cagggcagct	ggaaaggggc	cccctcacct	gggctgagcc	660
acatctccct	ccccagactc	cacacagcgg	cgctcccagc	ctgaatctgc	ctggatggaa	720
ctgaggacca	atcatgctgc	aaggaacact	tccacgcccc	gtgaggcccc	tgtgcaggga	780
ggagctgcst	gttcaactggg	aymagccagg	gcgcggggcc	ccacttctga	gcacagagca	840
gagacagacg	caggcgggga	caaaggcaga	ggatgtagtc	cccattgggg	aggggtggag	900
gaaggacatg	taccctttca	tgcctacaca	cccctcatta	aagcagagtc	gtggcatctc	960
aaaaaaaaaa	aaaaaaaaaa	aaaactcgtg				990

<210> 326

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (525)..(525)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (578)..(578)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (581)..(581)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (620)..(620)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (629)..(630)

<223> n equals a,t,g, or c

<400> 326

gtgaaacgcc	tgggctcaag	ctgattcacc	tgcctccacc	tcccacgtg	ctgggattac	60
aaacatgatc	ccccacgccc	agccaacaca	aaacttctga	tgctctgttt	tctcatctgt	120
gaactggagc	taaggctaag	tggctctgtct	gtttaataag	agtttgaatc	agatggcctg	180
gcatgaagag	tactggcct	gagagaatgt	caggggcatt	tgtaaatgtg	taaagggctg	240
aaaaatcctg	agggattatt	attattgcta	ttgttggtat	tattcacaga	cacatycaac	300
agccattgtc	tgcctcctta	tctgtcatgc	tttctgcacg	agcgtcagcc	tgagcttcaa	360
tctgtgtgta	tatctgcagc	ttacgtcctt	gcacccctcc	agaacccagt	ttcatccttg	420
taggtttttc	craagcagga	tttgacaaag	tggcgtgttt	tttaagtat	ttattttgca	480
ggccatttac	tcggcatggc	tattttttaca	gtgggtaagg	agcanggcta	aaaataactt	540
agctcataac	cagacaggtt	ctgcatttga	cattacngng	nattcatttg	catcccatth	600
ggtcgccttt	ctgggttaacn	ggtagaatnn	aagaaagctc	acccgaa		647

<210> 327

<211> 1321  
 <212> DNA  
 <213> Homo sapiens

<400> 327  
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 gctccgctcc gatcgctgtg gggcttggtt ttttgggggt gggggggcgg gggggctcag 120  
 atatggagggc aaatgggagc caaggcacct cgggcagcgccaacgactcc cagcacgacc 180  
 ccggtaaaat gtttatcggg ggactgagct ggcagacctc accagatagc cttagagact 240  
 atttttagcaa atttgagaaa attagagaat gtatgggtcat gagagatccc actacgaaac 300  
 gctccagagg cttcggtttc gtcacgttcg cagaccagc aagtgtagat aaagtattag 360  
 gtcagcccca ccatgagtta gattccaaga cgattgacct caaagttgca tttcctcgtc 420  
 gagcgcaacc caagatggtc acaagaacaa agaaaatatt tgtaggcggg ttatctgcga 480  
 acacagtagt ggaagatgta aagcaatatt tcgagyagtt tkgcaagggtg gaagatgcaa 540  
 tgctgatgtt tgataaaaact accaacaggc acagggtt tggctttgtc acttttgaga 600  
 atgaagatgt tgtggagaaa gtctgtgaga ttcattttcca tgaaatcaat aataaaatgg 660  
 tagaatgtaa gaaagctcag ccgaaaagaag tcatgtttccc acctgggaca agaggccggg 720  
 cccggggact gccttacacc atggacgcgt tcatgcttgg catggggatg ctgggtgagt 780  
 ctggacagga ccgcaggtca ccatggactg ggagggctat ggaggcctct actcccaact 840  
 gggtcaccta ccagtggggc aaactgcttc acctttctaa gcctcagttt ccttgtctgt 900  
 agatgaggat gataattccc cgttccaaga cagttgtgat gattaagtggt ggggtgtgtgt 960  
 gtgtgcatgc atgtgtgtgt gtgtgtgtgt gtgtttgtat ttataatatt gccccatgcc 1020  
 tggcttatag gatattgttag actattttct ctcttttcca tctccttctt caaaagaagg 1080  
 aaaagtcctcc ctctatctgc ctcagccctc tcactgtagt gggagttytt aagatgtaag 1140  
 gactcctggc tgacttgact tgtgtgggct aaggctacgt tttctaaaac ttgggagagg 1200  
 agggaagtgg taagggtggg cgataatcct gtctatttaa atgattaaca tttttctctt 1260  
 gggatatcaa aatttgcatt taaatggatg ttttaaatag cctgttttac tctttatttg 1320  
 c 1321

<210> 328  
 <211> 729  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (725)..(725)  
 <223> n equals a,t,g, or c

<400> 328  
 tcgaccacag cgtccggcca tttagaaata atcaactctt aatcagcctg ggatagtcag 60  
 tactaaaagc accttcatga gctgtgaaaa atttaaatgca tttattttaca tatttagttt 120  
 taaatttttag tatattgtta gttgaggtat agttttccaaa caaagagccg tgaaatgttt 180  
 agtaactgtc tctgtacctc tggatgagga cagctcagcc gggaaatggag ggggactggg 240  
 tgaggagacc agaatgtcag tgtggccacg cagcacactt ttgttttgtc ttctgtcctt 300  
 gagcactggc ttgttccttg taaaactagg cataataata cctatcctgc tgtgtgggtg 360  
 gaagttaaata gtgataatga tgtgtgtgag atgcctgcac agtgcctgga ggtattgaag 420  
 aattattgct gcctwttctt tttctacctc ccacttaccc gctacccccg ggtgctacat 480  
 gttagaaaac actgtgtaaa gtgtggatgc ttctgaaaaa tctccctgcc agagttagt 540  
 gccaatagcg tgcagaaaat aagatgcaat gatttggctt cttttctgtt tggcaataag 600  
 aagcttattt gcmcatagcc tgatttcttt caatctgcaa aaaaaaaaaa aaaaaaaaaa 660  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720  
 rggngngcc 729

<210> 329  
 <211> 1084  
 <212> DNA

<213> Homo sapiens

<400> 329

ggatggcgct	acgtctgctg	cggagggcgg	cgcgcggagc	tgcggcgggc	gcgctgctga	60
ggctgaaagc	gtctctagca	gctgatatcc	ccagacttgg	atatagttcc	atcccatc	120
acaagtacat	cccccgagg	gcagtgcctt	atgtacctgg	aatgatgaa	aagaaaataa	180
agaagattcc	atccctgaat	gtagattgtg	cagtgcctga	ctgtgaggat	ggagtggctg	240
caaacaaaaa	gaatgaagct	cgactgagaa	ttgtaaaaac	tcttgaagac	attgatctgg	300
gccctactga	aaaatgtgtg	agagtcaact	cagtttccag	tggctctggc	gaagaagacc	360
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gtctctttct	agatgcagtc	cgttttttga	ggaraagact	ttcgagcac	ataggtgcam	540
caagtartaa	agaaaccctg	gatawtctct	acgcccggca	aaagattggt	gtcatagcga	600
aagccttttg	tctccaagcc	gtaratctgg	kgkacattga	ctttcgagat	ggarctkggc	660
tgttagagaa	gtcacgagaa	ggagccgcca	tgggcttcac	tggttaagcag	gtgattcacc	720
ctaaccaaat	tgcctgtgtc	caggagcagt	tttctccttc	ccctgaaaaa	attaagtggg	780
ctgaagaact	gattgctgcc	tttaaagaac	atcaacaatt	aggaaagggg	gcctttactt	840
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ccacctccat	caaggaaaaa	tgatctgtta	aatgaagctgt	catcaggct	aaagggtatt	960
gaagctgcag	agggatcaac	ttgtgcttgc	cagaggacgc	caatgaagtt	tgaaacacca	1020
acaatcagag	atthttgtttc	tgttcctcat	taaatcatga	gctttttgtgc	cgagaaaaaa	1080
aaaa						1084

<210> 330

<211> 1776

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1748)..(1748)

<223> n equals a,t,g, or c

<400> 330

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atcctcacag	catgggttcta	attaactttc	tagcttatt	tcccttttcc	tgctccctct	120
ctctacaact	agtcttttctc	tgattgcccc	gccctcaacc	catctaaact	agacccccagg	180
gaagcacctt	ggctcccttc	ctctctccca	ctcaccatcc	aaccaatcac	cagagcctgt	240
acattctata	ttttcaacat	cgattcaatt	gtctactttc	ttctagcctg	ccctctctga	300
ctgggactcc	ttgagccagc	ctgatcacco	caatccatcc	ctcacactgt	gcccattctt	360
ctgaagtagg	aatctgatca	caccamcctg	ctaaaaacac	tctggttctc	cccacggcat	420
gtgggtgccct	tgtatagctg	gcaaagcctt	gcatggcacg	gccccagcct	gtgcttcaac	480
tcaattgccc	gactctctcc	agctctgctg	agccacctaa	gtcacagatg	gtttctcctc	540
tcatctctgc	tctcttccat	gtgccatttc	tgtggcttgg	aatgtttctc	cctcattctc	600
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gagcatcgat	tctccatctc	agcaggcctc	tgtgtgcctg	ctgactccga	ctagaccaga	780
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gtgcattacc	tattcatcct	cttctctccc	ttaacctgaa	ccagtgatct	tactgtctcc	900
atcattgttt	ttttcttttc	ttttcttttc	tttttttttt	ttgaggtgga	gtctggctct	960
tcacccaggc	tggagtgcag	tgatgcgac	tcgactcact	gcaacctcca	tctcctgggt	1020
tcaagcgatt	ctcctgcctc	agcctcccca	gtagctggga	ttacaggcat	gcgctaccat	1080
ccccaaactaa	tttttgccctc	cataattytg	ccttttstg	aatgtcatac	aggtgaatt	1140
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aacctccacc	tcccaggttc	aagtgaytct	sctgcctcag	cctcccaggt	agctgggact	1320
acaggcacgt	gccaccatac	ccggctaatt	tgtggatttt	tagtacagac	gsggtttcgt	1380

catgttggcc	agtgtgytgt	tgaattcctg	acctcaagtg	atccacctgc	ctcagcctcc	1440
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taaactttct	ccatgkcttt	aatggcctga	tagctcattt	atTTTTatcawggaatattt		1560
cattgtctgg	atggaccaca	gtttatttct	ccattcacct	actgaaggac	atctcggttg	1620
cttctaagtt	ttggcaatta	tgaataaagc	tgctataacc	atcaagtgca	ggTTTTttgtg	1680
tggacctatt	atcaactaat	tcgggtaaat	ctcaaggagt	gcaattgctg	gatccacagt	1740
aagagtgngt	ttagttttaa	gtgcttgGCC	attttc			1776

<210> 331  
 <211> 784  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n equals a,t,g, or c

<400> 331	
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ttgcattccc	accagcaatg aatgagagtt tctgttgctc cacattctca ctaccattcg 120
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 <211> 699  
 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> misc\_feature

<222> (66)..(66)

<223> n equals a,t,g, or c

<400> 332

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<210> 333

<211> 3546

<212> DNA

<213> Homo sapiens

<400> 333

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 <212> DNA  
 <213> Homo sapiens

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<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

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	tctgctctt ggtctcatct
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<210> 335  
 <211> 1396  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1327)..(1327)  
 <223> n equals a,t,g, or c

<400> 335						
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<210> 336  
 <211> 1397

<212> DNA  
 <213> Homo sapiens

<400> 336

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<210> 337  
 <211> 1368  
 <212> DNA  
 <213> Homo sapiens

<400> 337

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<211> 1763  
<212> DNA  
<213> Homo sapiens

<400> 338  
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<212> DNA  
<213> Homo sapiens

<400> 339  
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ccatctcttt cccattttta ctgagaattg attatatata gctctaagta tataggtatt 660  
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<210> 340  
 <211> 847  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (116)..(116)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (193)..(193)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (199)..(199)  
 <223> n equals a,t,g, or c

<400> 340

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<210> 341

<211> 2409

<212> DNA

<213> Homo sapiens

<400> 341

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gccattttta	agtttaagct	taacttttct	tcacttacat	atttagtata	tgtattttat	2280
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aaaaaaaaaa						2409

<210> 342  
 <211> 876  
 <212> DNA  
 <213> Homo sapiens

<400> 342						
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ggaggctggg	cacgcggggc	ccagggggyw	ktcccgkkcg	ccgccctgkc	tctgctgtcc	240
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gcaggagcag	gcccttggat	ttggtgttca	tcctcgatag	ttcccgcagt	gtgcggcccc	360
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agcccctaga	cgagcacgtt	ttctatgtgg	agacctacgg	ggtyattgag	aaaccttcct	840
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<210> 343  
 <211> 1586  
 <212> DNA  
 <213> Homo sapiens

<400> 343						
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agtcttttagt	tatgtgtttc	ttacaatatt	tcattgtagt	ttcacttgat	cttgatatgt	360
gttataatcc	cctgatcaca	gcttcagtga	tattccagca	aaaagtgagc	aaaaarcaaa	420
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cacgtgctgg	caccggtgtg	tgccaarcac	acacgggwcc	agagcgcaaa	aggtttcctg	1560
gaatctagag	gagagtttgg	caattt				1586

<210> 344  
 <211> 1011  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n equals a,t,g, or c

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ttgcagctta	aaagcatttt	attaagcatt	tttggatggt	gcttcctacc	acttaagaat	120
aaaaaatgca	ttttaataaa	aacaaatcta	tactgaagtc	attttccttt	gtgagaggaa	180
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gtactaagaa	gaacatgaaa	ctgtttccgt	ctcaattcca	gcttatcttc	aacactttct	480
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<210> 345  
 <211> 1063  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (23)..(23)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (30)..(30)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

<222> (1032)..(1032)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<400> 345

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taaaagaaaa	aaacacacat	cctggaagtc	tgtaagttgt	tttttgttac	tgtaggtctt	240
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<210> 346  
 <211> 1178  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (41)..(41)  
 <223> n equals a,t,g, or c

<400> 346

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<210> 347

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (570)..(570)

<223> n equals a,t,g, or c

<400> 347

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<211> 4344

<212> DNA

<213> Homo sapiens

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<222> (754)..(754)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2242)..(2242)

<223> n equals a,t,g, or c

<400> 348

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<400> 351						
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 <212> DNA  
 <213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

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<222> (21)..(21)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (107)..(107)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (150)..(150)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (323)..(323)

<223> n equals a,t,g, or c

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<222> (1307)..(1307)

<223> n equals a,t,g, or c

<220>

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<222> (1337)..(1337)

<223> n equals a,t,g, or c

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<222> (1341)..(1341)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1343)..(1343)

<223> n equals a,t,g, or c

<400> 352

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 <212> DNA  
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<220>  
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 <223> n equals a,t,g, or c

<400> 354						
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gcgtacgtac	ctcagcctca	cacancagtg	ccagtgggca	cacggggccg	ttncaacggg	960
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<210> 355  
 <211> 751  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (146)..(146)  
 <223> n equals a,t,g, or c

<400> 355						
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<210> 356

<211> 1177

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1115)..(1115)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1142)..(1142)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1162)..(1162)

<223> n equals a,t,g, or c

<400> 356

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gtgtatgacc agtggttgga agatctgaat tccagagAAC aggagacctg ccagccygtg 480
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tnggggttat ttttggcttg gnattggcct tcgtttt 1177

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<210> 357
<211> 1775
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (820)..(820)
<223> n equals a,t,g, or c

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<400> 357
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aagggccttg agagaacct cgggacaac tttggaggtg gaaacactgc ctgggaggaa 300
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<210> 358
<211> 866
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (27)..(27)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (33)..(33)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (105)..(105)  
 <223> n equals a,t,g, or c

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<210> 359  
 <211> 1237  
 <212> DNA  
 <213> Homo sapiens

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<210> 360  
 <211> 1681  
 <212> DNA  
 <213> Homo sapiens

<400> 360  
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<210> 361  
 <211> 1863  
 <212> DNA  
 <213> Homo sapiens

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cgc						1863

<210> 362  
 <211> 1134  
 <212> DNA  
 <213> Homo sapiens

<400> 362						
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aaaaaggaat	catttctccc	tccctcccac	cacatagaat	caacatatgg	tagggattac	1020
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<210> 363  
 <211> 626  
 <212> DNA  
 <213> Homo sapiens

<400> 363						
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tccacctgat	tgtgtcctat	gactggctga	tcctccaagg	tccagccaag	ccagtttttg	300
aaggggacct	gctggttctg	cgctgccagg	cctggcaaga	ctggccactg	actcaggtga	360

ccttctaccg	agatggctca	gctctgggtc	ccccggggcc	taacagggaa	ttctccatca	420
ccgtgggtaca	aaaggcagac	agcgggcact	accamtgcag	tggcatcttc	cagagccctg	480
gtcctgggat	cccagaaaca	gcctctgttg	tggctatcac	agtccaagaa	ctgtttccag	540
cgccaattct	ccttctacaa	ggatggaagg	agtgcaaa	gcaggggggc	tctcctcaga	600
attccagatc	cccacagctt	cagaaa				626

<210> 364  
 <211> 152  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (41)..(41)  
 <223> n equals a,t,g, or c

<400> 364						
cagcccagct	tcatggtgac	tgtgttttagg	tctccctcgt	nccgaattcc	tgcagcccg	60
gggatccact	agttctagag	cggccgccac	cgcggtgag	ctccagcttt	tgttcccttt	120
agtgagggtt	aatttcgagc	ttggcgtaat	ca			152

<210> 365  
 <211> 1760  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1693)..(1693)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1748)..(1748)  
 <223> n equals a,t,g, or c

<400> 365						
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cttccasagc	cctgggtcctg	ggatcccaga	aacagcatct	gttgtggcta	tcacagtcca	120
agaactgttt	ccagcgccaa	ttctcagagc	tgtaccctca	gctgaacccc	aagcaggarg	180
ccccatgacc	ctgagttgtc	agacaaagtt	gcccctgcag	aggtcagctg	cccgccctct	240
cttctccttc	tacaaggatg	gaaggatagt	gcaaagcagg	gggctctcct	cagaattcca	300
gatccccaca	gcttcagaag	atcactccgg	gtcatactgg	tgtgaggcag	ccactgagga	360
caaccaagtt	tggaaacaga	gccccagct	agagatcaga	gtgcagggtg	cttccagctc	420
tgctgcacct	cccacattga	atccagctcc	tcagaaatca	gctgctccag	gactgctcc	480
tgaggaggcc	cctggctctg	cctccgcgcg	caaccccatc	ttctgaggat	ccaggctttt	540
cttctcctct	ggggatgcca	gatcctcatc	tgtatcacca	gatgggcctt	cttctcaaac	600
acatgcagga	tgtgagagtc	ctcctcggtc	acctgctcat	ggagttgagg	gaattatctg	660
gccaccrgaa	gcctgggacc	acaaaggcta	ctgctgaata	gaagtaaaca	gttcatccat	720
gatctcactt	aaccacccca	ataaatctga	ttctttattt	tctcttctctg	tcctgcacat	780
atgcataagt	actttttacaa	gttgtcccag	tgttttgtta	gaataatgta	gttaggtgag	840
tgtaaataaa	tttatataaa	gtgagaatta	gagtttagct	ataatgtgt	attctctctt	900
aacacaacag	aattctgctg	tctagatcag	gaatttctat	ctgttatatc	gaccagaatg	960
ttgtgattta	aagagaacta	atggaagtgg	attgaataca	gcagtctcaa	ctgggggcaa	1020
ttttgcccc	aagaggacat	tgggcaatgt	ttggagacat	tttggtcatt	atacttgggg	1080
ggttggggga	tgggtgggatg	tgtgtgctac	tggcatccag	taaataagaag	ccaggggtgc	1140
cgctaaacat	cctataatgc	acagggcagt	accccacaac	gaaaaataat	ctggcccaaa	1200

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ctcaaaaagcc	attatgttga	aatcctaata	cccaagggtga	tggcattaag	aagtgggcct		1440
ttgggaagtg	attagatcag	gagtgcagag	ccctcatgat	taggattagt	gcccttattt		1500
aaaaaggccc	cagagagcta	actcaccctt	ccaccatattg	aggacgtggc	aagaagatga		1560
catgtatgag	aaccaaaaaa	cagtgtcgcc	aaacaccgac	tctgtcgttg	ccttgatctt		1620
gaacttccag	cctccagaac	tatgagaaat	aaaattctgt	tgtttgtaag	ctaateccagt		1680
tgtgtaattt	ggnatagtag	cccaaattgga	ctagagagtt	ggcctctggc	cacatgatga		1740
gttatggnat	gtaaaaatac						1760

<210> 366  
 <211> 880  
 <212> DNA  
 <213> Homo sapiens

<400> 366							
ggcacgagac	tggatgaaca	caaactccac	atgtatcttt	ctgccttgca	gtccttgatc		60
ccatctctct	ttgcattagt	gctacagaat	gcacctttct	ccagcaaagc	caagcttcat		120
ggtgaagtgc	cacagataga	agtgactagg	tttcctcggc	ctatgtcgcc	tcttcaagat		180
gtgtccacta	ttatcggaag	tcgtgagcaa	ttggcagtg	tgctgcaact	ttatgactac		240
cagctagaac	aagagggtac	aacaggctgg	gagagttac	tgtgggttgt	caatcaattg		300
ttgccacaac	ttatagaaat	agttggcaaa	attaatgtta	cttcaactgc	ctgtgtccat		360
gaatttctcca	gatttttctg	gcgcctttgc	cggacatttg	gcaaaatttt	tacaaacact		420
aaggtaaaac	ctcagttcca	ggagatttta	agactatctg	aagaaaacat	tgattcctca		480
gcaggaaatg	gggtcctcac	taaagctaca	gtccccattt	atgcaacagg	agtccttacg		540
tgttatattc	aggaagaaga	ccgaaaactg	ttagttggat	tcttagaaga	tgtaatgacg		600
ctgctttcat	tatctcatgc	tcctcttgat	agcctgaagg	cttcttttgt	ggaattgggt		660
gcaaaccag	cctaccatga	gttactatta	actgttttgt	ggtatggtgt	tgtccatact		720
tcagcactcg	tgaggtgtac	tgctgctaga	atgtttgagg	tatgtcaaca	catgcctctg		780
ttggtttcaa	ttataatgat	tttttttttt	ttgcgaagaa	gaagggaatt	ttttttaata		840
aaaaggcttt	gcataatcaa	aaaaaaaaaa	aaaaaaaaaa				880

<210> 367  
 <211> 1106  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (857)..(857)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1037)..(1037)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1058)..(1058)  
 <223> n equals a,t,g, or c

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<400> 367
tccancatta tgggatacat tgatgatcca gacaaatata atcagggttt tgaattgttg      60
ctgtcagcct tgggtgatcc ctacagaaaga gtagtttagtg ctacacata agtattttta      120
ccagcttacg ctgctgggac tacagaactt ggaaatttac agtctcatct tataacttaca      180
ctactgaaca agattgaaaa acttctcagg gaaggagAAC atggactgga tgaacacaaa      240
ctccacatgt atctttctgc cttgcagtcC ttgatcccat ctctctttgc attagtgcta      300
cagaatgcac ctttctccag caaagccaag cttcatggtg aagtgccaca gatagaagtg      360
actaggtttc ctcggcctat gtcgcctctt caagatgtgt ccactattat cggaagtcgt      420
gagcaattgg cagtgcctgt gcaactttat gactaccagc tagaacaaga gggtaacaaca      480
ggctgggaga gtttactgtg ggttgtcaat caattgttgc caaacttat agaaatagtt      540
ggcaaaaatta atgttacttc aactgcctgt gtccatgaat tctccagatt tttctggcgc      600
ctttgccgga catttggcaa aattttttaca aacactaagg taaaacctca gttccaggag      660
attttaagac tatctgaaga aaacattgat tcttcagcag gaaatggggt cctcactaaa      720
gctacagtcc ccatttatgc aacaggagtc cttacgtgtt atattcagga agaagaccga      780
aaactgtttag ttggattctt agaagatgta atgacgctgc tttcattatc tcatgctcct      840
cttgatagcc tgaaggnttc ttttgtggaa ttgggtgcaa accaggccta ccatgagtta      900
ctattaactg ttttgkggta tggkgtkgkc catacttag cactcgtgag gtgtactgct      960
gctagaatgt ttgagctgtt ggtgaagggg gtgaatgaaa ctctggtagc tcagaggggt      1020
gttcctgctc ttcattnact ctctccagtg gaccctgnaa atctctgtca ggattgccac      1080
aatttcagc ctttgggact atttat                                     1106

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<210> 368
<211> 646
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (19)..(19)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (544)..(544)
<223> n equals a,t,g, or c

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<400> 368
cagatgccag ggacttggnc ttcccccggt tgaacacag gttccaagaa acctgcaggg      60
tccagcctcc ccccatccc cagtyttccc caccctggcc cggccctcca ggtgcagaaa      120
catgcaggcc cctctccagg actgtgggag gagtgtgtcc ctacagactgg cctgtgtcct      180
ggctcctctt accacctctt ccagagggtt tcacctgcag ctgccccagg ataaaggcaa      240
ggccagarag gactcctgaa ctctgtgtg cctgggggtg caggggcaaa catagccaac      300
tggtggcctg agcggggcca tgggtgargac acccttgggtg gcttgtccca catcaagctg      360
ggargtgaca cttaggatgc atttttcaat atttttagtgt ttgaataacg ggctawcttg      420
agaaaaaaaaa aatttgaatc acacatcaaa ccaaaaataa attctagggtg gattttaaca      480
ctttccaaaaa attattatta gtttagagac aggtgtcac tccgtcgcct aggctggagt      540
gcanggggat gatcatggtt cactgcaacc ttaaaactccc tggcctcata tgatccccc      600
gggctccagc ccctccaaa gttactgggaa actaccaaaac atgccc                                     646

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<210> 369
<211> 1590
<212> DNA
<213> Homo sapiens

```

```

<400> 369
tttttttttt tttgttttaa tgatacaact taattttatt aggacagacg ctggcggcca      60

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ccagaagttt	gagcctcttt	ggtagcagga	ggctggaaga	aaggacagaa	gtagctctgg	120
ctgtgatggg	gatcttactg	ggcctgtctc	tcctggggca	cctaacagtg	gacacttatg	180
gccgtcccat	cctggaagtg	ccagagagtg	taacaggacc	ttggaaaggg	gatgtgaatc	240
ttccctgcac	ctatgacccc	ctgcaaggct	acacccaagt	cttgggtgaag	tggctggtag	300
aacgtggctc	agaccctgtc	accatctttc	tacgtgactc	ttctggagac	catatccag	360
aggcaaagta	ccagggccgc	ctgcatgtga	gccacaaggt	tccaggagat	gtatccctcc	420
aattgagcac	cctggagatg	gatgaccgga	gccactacac	gtgtgaagtc	acctggcaga	480
ctcctgatgg	caaccaagtc	gtgagagata	agattactga	gctccgtgtc	cagaaacact	540
cctcaaagct	actcaagacc	aagactgagg	cacctacaac	catgacatac	cccttgaaag	600
caacatctac	agtgaagcag	tcctgggact	ggaccactga	catggatggc	taccttgagg	660
agaccagtgc	tgggccagga	aagagcctgc	ctgtctttgc	catcatcctc	atcatctcct	720
tgtgctgtat	ggtggttttt	accatggcct	atatcatgct	ctgtcggaag	actcccaac	780
aagagcatgt	ctacgaagca	gccagggcac	atgccagaga	ggccaacgac	tctggagaaa	840
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tgggcaacaa	ctactctgat	gagccctgca	taggacagga	gtaccagatc	atcgcccaga	960
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ctgagggcaa	aagtgtctgt	taaaaatgcc	ccattaggcc	aggatctgct	gacataattg	1080
cctagtgcgt	ccttgccctc	tgcctggcct	ctttccctgc	tacctctctt	cctggatagc	1140
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ctgccggggg	cttctggtac	tcctctctaa	ataccagagg	gaagatgcc	atagcactag	1320
gacttggtca	tcatgcctac	agacactatt	caactttggc	atcttgccac	cagaagaccc	1380
gagggaggct	cagctctgcc	agctcagagg	accagctata	tccaggatca	tttctctttc	1440
ttcagggcca	gacagctttt	aattgaaatt	gttatttcac	aggccagggt	tcagttctgc	1500
tcctccacta	taagtcta	gttctgactc	tctcctgggtg	ctcaataaat	atctaataat	1560
aacagcaaaa	aaaaaaaaaa	aaaactcgag				1590

<210> 370  
 <211> 1179  
 <212> DNA  
 <213> Homo sapiens

<400> 370						
gggctgcagg	aattcggcac	gagtttaaag	ggtgactcgt	cccacttggtg	ttctctctcc	60
tgggtgcagag	ttgcaagcaa	gtttatcgga	gtatcgccat	gaagttcgtc	ccctgcctcc	120
tgctgggtgac	cttgtcctgc	ctggggactt	tgggtcaggc	cccagggcaa	aagcaaggaa	180
gcaactgggga	ggaattccat	ttccagactg	gagggagaga	ttcctgcact	atgcgtccca	240
gcagctttggg	gcaaggtgct	ggagaagtct	ggcttcgcgt	tcgactgccg	caacacagac	300
cagacctact	ggtgtgagta	cagggggcag	cccagcatgt	gcaggcttt	cgctgctgac	360
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ggggccccgg	tgcttaggcc	atccgtgtgc	agggaggctg	gaccccaggc	ccatatgcag	480
caggtgactt	ccagcctcaa	gggcagccca	gagcccaacc	agcagcctga	ggctgggacg	540
ccatctctga	ggcccaaggc	cacagtga	ctcacagaag	caacacagct	gggaaaggac	600
tcgatggaag	agctgggaaa	agccaaaccc	accaccgcac	ccacagccaa	acctacccag	660
cctggaccca	ggcccggagg	gaatgaggaa	gcaaagaaga	aggcctggga	acattgtttg	720
aaacccttcc	aggccctgtg	cgcccttctc	atcagctct	tccgaggggtg	acaggtgaaa	780
gacccctaca	gatctgacct	ctccctgaca	gacaaccatc	tctttttata	ttatgccgct	840
ttcaatccaa	cgttctcaca	ctggaagaag	agagtttcta	atcagatgca	acggcccaaa	900
ttcttgatct	gcagcttctc	tgaagtttgg	aaaagaaacc	ttcctttctg	gagtttgacg	960
agttcagcaa	tatgataggg	aacaggtgct	gatgggcca	agagtgacaa	gcatacacaa	1020
ctacttatta	tctgtagaag	ttttgctttg	ttgatctgag	ccttctatga	aagtttaaat	1080
atgtaacgca	ttcatgaatt	tccagtgttc	agtaaatagc	agctatgtgt	gtgcaaaaata	1140
aaagaatgat	ttcagaaaaa	aaaaaaaaaa	aaaactcgag			1179

<210> 371  
 <211> 819  
 <212> DNA

<213> Homo sapiens

<400> 371

gaattcggca	cgaggagaat	catggggcctc	tggctgggca	tgctggcctg	tgtcttcctg	60
gcaactgctg	cctttgttgc	ttatactgcc	cggctggact	ggaagcttgc	tgcagaggag	120
gctaagaaac	attcaggccg	gcagcagcag	cagagagcag	agagcactgc	aaccagacct	180
gggcctgaga	aagcagtcct	atcttcagtg	gctacaggca	gttccccctg	cattaccttg	240
acaacgtatt	caaggtctga	gtgccacgtg	gactttcttca	ggactccaga	ggaggcccac	300
gccctttcag	ctctaccag	cagactatca	gtgaaacagc	tggtcatccg	ccgtggggct	360
gctctggggg	cggcgtcagc	acactgatgg	tggggctcac	ggtcaggatc	ctagccacca	420
ggcactagca	aagaagcttg	gaaatagaaa	gccaggagtg	gctgtcccca	gtatgcaaac	480
acaccacggt	ctgccctgca	aaaacaccaa	tggggtctag	tgcaggtgga	cactttgaac	540
cactcctcaa	aaaaagaact	ttggctgaty	ccttgtgggtg	acactcagag	gggtctgaac	600
agacttgaca	attctgttct	ggtcaagctg	gagttttctt	ctgtgacttg	gactgctcta	660
cagaagacat	cagccaactg	cacgagtcag	agtccaggga	ttgtcactat	tattaataat	720
gtaaatggct	tcaaattggga	cactgagat	aammycacia	aaaccactgt	tatattaaag	780
attacacatt	tcctggaaaa	aaaaaaaaaa	aaaactcga			819

<210> 372

<211> 1507

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1047)..(1047)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1301)..(1301)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1507)..(1507)

<223> n equals a,t,g, or c

<400> 372

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ccccagacgc	aggccctcat	ggccagggga	gggtgcacca	ggcggccccc	ctgagcgacg	180
ctcccccata	tgacgcccac	gggaacttcc	agtacgacca	tgaggctttc	ctgggacggg	240
aagtggccaa	ggaattcgac	caactcacc	cagaggaaa	caggcccgt	ctggggcgga	300
tcgtggaccg	catggaccgc	gcgggggacg	gcgacggctg	ggtgtcgctg	gccgagcttc	360
gcgcgtggat	cgcgcacacg	cagcagcggc	acatacggga	ctcggtgagc	gcggcctggg	420
acacgtacga	cacggaccgc	gacgggcgtg	tgggttggga	ggagctgcgc	aacgccacct	480
atggccacta	cgcgcccggt	gaagaatttc	atgacgtgga	ggatgcagag	acctacaaaa	540
agatgctggc	tcgggacgag	cggcgtttcc	gggtggccga	ccaggatggg	gactcgatgg	600
ccactcgaga	ggagctgaca	gccttcctgc	accccgagga	gttccctcac	atgcgggaca	660
tcgtgattgc	tgaaccctg	gaggacctgg	acagaaacaa	agatggctat	gtccagggtg	720
aggagtacat	cgcggatctg	tactcagccg	agcctgggga	ggaggagccg	gcgtgggtgc	780
agacggagag	cgagcagttc	cgggacttcc	gggatctgaa	caaggatggg	cacttgatg	840
ggagtggagt	gggccactgg	gtgctgcccc	ctgccacagga	ccagcccctg	gtggaagcca	900
accacctgct	gcacgaragc	gacacggaca	aggaygggcg	gctgagcaaa	gcgsaaatcc	960
tgggtaattg	gaacatgttt	gtgggcagtc	aggccaccaa	ctatggygag	gacctgacct	1020
ggcaccacga	tgagctgtga	gcmccngca	cctgccacag	cctcagaggc	ccgcacaatg	1080

accggaggag	gggccgctgt	ggtctggccc	cctccctgtc	caggccccgc	aggaggcaga	1140
tgcagtccca	ggcatcctcc	tkcccttggg	ctctcaggga	ccccctgggt	cggcttctgt	1200
ccctgtcaca	cccccaaccc	cagggaaggg	ctgtcatagt	cccagaggat	aagcaatacc	1260
tattttctgac	tgagtctccc	agcccagacc	cagggaacct	nggccccaa	ctcagctcta	1320
agaaccgccc	caacccttcc	agctccaaat	ctgagcctcc	accacataga	ctgaaactcc	1380
cctggcccca	gccctctcct	gcctggcctg	gcctgggaca	cctcctctct	gccaggaggc	1440
aataaaagcc	agcgccggga	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1500
aaaaaan						1507

<210> 373  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<400> 373						
agagcggacg	aagctggata	acaggggacc	gatgatgtgg	cgaccatcag	ttctgctgct	60
tctgttgcta	ctgaggcacg	gggcccaggg	gaagccatcc	ccagacgcag	gccctcatgg	120
ccaggggagg	gtgcaccagg	cggccccctt	gagcgacgct	ccccatgatg	acgcccacgg	180
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gggggacggc	gacggctggg	tgtcgtggc	cgagcttcgc	gcgtggatcg	cgcacacgca	360
gcagcggcac	atacgggact	cggtgagcgc	ggcctgggac	acgtacgaca	cggaccgcga	420
cgggcgtgtg	ggttgggagg	agctgcgcaa	cgycacctat	ggccactasg	sgcccgtgta	480
agaatttcat	gacgtggagg	atgcagagac	ytacaaaaag	atgctggytc	gggacggcgc	540
gcgtttccgg	gtggccgacc	aggatgggga	ctcgatggcc	actcga		586

<210> 374  
 <211> 1792  
 <212> DNA  
 <213> Homo sapiens

<400> 374						
ggcacgaggt	tgtttgagtt	tggtttggag	caaaactgag	gtagtcctaa	catttctggg	60
actgaatcca	ggcaagagaa	agaagaaaaa	gaagaagaaa	aagaggagga	aaaagtggat	120
tacacaatga	catggagaat	gggacccccg	ttcactatgc	tgttggccat	gtggctagt	180
tgtggatcag	aacccccacc	ccatgccact	attagaggca	gccacggagg	acggaaaagt	240
cctttggttt	ctccggacag	cagtaggcca	gctcggtttc	tgaggcacac	tgggagctct	300
cgcggaattg	agagatccac	tctggaggaa	ccaaaccttc	agcctctcca	gagaaggagg	360
agtgtgcccc	tgttgagact	agctcgccca	acagagccgc	cagcccgtct	ggacatcaat	420
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<210> 375  
 <211> 1673  
 <212> DNA  
 <213> Homo sapiens

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<210> 376  
 <211> 2084  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (775)..(775)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2080)..(2080)  
 <223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (2083)..(2083)  
 <223> n equals a,t,g, or c

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ccctcctagg tcacactttt cagaaaaaga atctgcatcc tggaaaccag aagaaaaata      180
tgagacgggg aatcatcgtg tgatgtgtgt sctgcctttg gctgagtgtg tggagtcctg      240
ctcaggtgtt aggtacagtg tgtttgatcg tgggtggttg aggggaaccg cttgttcaga      300
gctgtgactg cggctgcact gcagagaagc tgcccttggc tgctcgtagc gccgggcctt      360
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actggaggac tgtgcgggcc tgcctgggct gccctctccg ccgtggggcc ctgttgctgc      480
tgtccatcta tttctactac tccctcccaa atgcggctcg cccgcccttc acttggatgc      540
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ccagtcgaga tctctgcagt gtgtgaaaaa acgtggccca tgggttgcca      660
tggtcataatt acatcgcata tctgcggctg atcctgccag agctccaggc ccggattcga      720
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ttcctggata aactgcccca gcagaccggt gaccgtgctg gcatcaagga tcggggtttac      900
agcaacagca tctatgagct tctggagaac gggcagcggg cgggcacctg tgcctggag      960
taagccaccc ccttgagac tttgtttgcc atgtcacaat acagtcaagc tggctttagc      1020
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gatgcccttg agtctcagaa caactgccgc ctcatcgct accaggaacc tgcagatgac      1140
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cttcagtggc tgaatgtcca gcagagctat ttctctccac agggggcctt gcagggaagg      1440
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tgagcctcgg tgtcttcaac ctgtgaaatg ggatcataat cactgcctta cctccctcac      1560
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ttcctggcc ccttaagcct agctgtgtat cggcaccccc accccactag agtactcctt      1980
ctcacttgcg gtttccttat actccacccc tttctcaacg gtcctttttt aaagcacatc      2040
tcagattaaa aaaaaaaaaa aaaaaaaaaa agggggggcn gcnt      2084
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<210> 377  
 <211> 720  
 <212> DNA  
 <213> Homo sapiens

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<400> 377
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tgaaaaataaa gattgtttct ttttcaatgc aagttcacag atcactggg ttctagctac      180
agtttgttct agaccagagg ttgcagatat ttttgtccta taaagagaca catggttaat      240
atttttggct ttgtgagttg tatagttttc gttgtagctg ttcagctctg ctacatgaag      300
caacctataga ccatacctta acaagtggtc acttttgagt accaataaaa ctttatttag      360
aaataacaga gggctggatt tggctcctagt ttgctgaacc cttttctaga tgaaggctcc      420
tcttgccaag actggctccc taccttggct gacaaattct cactttggga cttagtcat      480
gttgctgctc tctgttattt tgcatgtctt ttctcatgtt taggtgctgt gtcttaatac      540
ttttttctta catttaattt aacaatcatt actgagcgct ggatgtcta gtttcttttc      600
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tctttctttcc	tcctttttctt	ttctttttttt	cttttttcttt	atttgaaggc	tctcactctg	660
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<210> 378  
 <211> 1707  
 <212> DNA  
 <213> Homo sapiens

<400> 378						
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tcctgggcct	ggctcctccc	ccttctcccc	atttgggctg	ctgtgccagg	gcttgctcca	180
gccacctggg	tgtgagctat	gccctctgcc	agaaatgctc	ttcctctat	tggcctggcc	240
acacctactc	agtctttggg	tctgtttaac	tgccacttcc	cccagtaaac	cttctgctcc	300
ccattcacat	cagatggact	tgtgtctctt	gcactagtct	atgagatttg	gatgtctgtg	360
tccttagggc	ccaagctggc	cactctggcc	cagaagcagc	ctcgggccat	gtcttgtcta	420
caggggtgtg	ggggacagta	tgtgcacccc	cttgctttct	caggtggact	ttgaacagct	480
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catgccttga	gcagtattag	ccgtgtgtgt	atgcatgtga	gtgtgtgtgt	atgtgtgtgt	1620
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tttcttagct	aatccaaaaa	aaaaaaa				1707

<210> 379  
 <211> 1239  
 <212> DNA  
 <213> Homo sapiens

<400> 379						
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cgaagatgaa	ggtggtggag	gagcccaacg	cgtttggggt	gaacaaccg	ttcttgcttc	180
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tccgactctc	gggcaagtgc	ttcagcctgg	tggagtccac	gtacaagtat	gagtttggcc	300
cgttccacaa	cgtgacccag	cacgagcaga	ccttcgcgtg	gaacgcctac	agtgggatcc	360
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acggtgacgc	ctgccgttcc	cggagccggc	agagcaaggt	ggagctggcg	tgtggaaaaa	480
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agcggcagtg	ggaccaggta	gagcaggacc	tggccgatga	gctgatcacc	cccaggggcc	660
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tgtgaccttg	tgggtgggaga	gcagaggtgg	acgcggccga	gagccctaca	gagaagctgg	1020
ctggtaggac	ccgcaggac	cagctgacca	ggcttgtgct	cagagaagca	gacaaaacaa	1080
agattcsagg	ttttaattaa	ttcccatact	gataaaaata	actcatgaa	ttctgtaaac	1140
cattgcataa	atgctatagt	gtaaaaaaat	ttaaacaagt	gttaacttta	aacagttcgc	1200
tacaagtaaa	tgattataaa	tactaaaaaa	aaaaaaaaa			1239

<210> 380  
 <211> 738  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (646)..(646)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (670)..(670)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (696)..(696)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (707)..(707)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (718)..(718)  
 <223> n equals a,t,g, or c

<400> 380						
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ggttgtgtgt	gtggctgggtg	gtcataagg	cctttctggc	tctaataacc	tgagcttctg	180
ttatgaagct	gggacctta	gagcctcagg	atgacacctc	gtttgtttgt	gaagcccaa	240
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tctgctctgc	ctggctgctc	actgcctcct	tctctgcca	gcagcacaag	ggcagtttgc	480
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agaaaaaggc	tgcactactc	tcaactgcc	tcttatgctt	cctgcggaca	gccctgcgac	600
aaagcttttc	ctctgcctgg	aaccctggtg	cccttaagg	cccagnact	gcagccacca	660
aggacactgn	cctaacttca	ctgcgaatgt	ccaagnccgg	ccctggncat	tgggctgnaa	720
aaacctcctg	gtgcaaaa					738

<210> 381  
 <211> 935

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (14)..(14)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (50)..(50)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (95)..(95)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (101)..(101)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (139)..(139)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (176)..(176)  
<223> n equals a,t,g, or c

<400> 381  
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aagctttttc ccaaaaggaa aaaaagggtt gccantaatt nttcaaggat tgcccatctt 120  
taatgctttc cttggggana agccttgcca caaaagcttt ttccttctgc cctgggnagcc 180  
ctggtgcctt cagggggcca gccactgcca gccaccaagg acactgtcct agctccactg 240  
cgaatgtcgc aagtcgggc cctggtcatt gggctgcaga acctcctggt gcagaaggac 300  
cctctattgt ccagggcctg tgttggtgc ctggaggcct tgcttgacta cctggatgcc 360  
cggagcccag acattgctct ccacgtggcc tccagcctt ggaatcggtt ttgtctgttt 420  
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ctgtttatgc ggtaccggag tagcagtgtc ctctctcatg aagagggtgg tgatgttctg 540  
caagggtgtg ctttggtga cctgtctacc ctctcgaaca ccacactcca ggccctgcat 600  
ggcttcttcc agcagctcca gagcatggga caccctggctg accacagcat ggcccagacc 660  
ctgcaggcct ccttggaggc ccttccccct agcacctcct caggccagcc acccctgcag 720  
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gaataaggaa	ataaaatgat	acactcacia	aaaaa			935

<210> 382  
 <211> 871  
 <212> DNA  
 <213> Homo sapiens

<400> 382						
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aagggaagaa	ctgcctccgc	tgctggccag	aactgtctgc	cttgatagac	tatgacctgc	120
agatcctctg	ggtgaccca	gggccacca	cagaactttc	tcaaagtatt	cactccttgt	180
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cagtacttct	ggaagagatc	tacacgcaca	agaatctctt	tactgagagg	ctgaataaga	360
tatctgatgg	gctgaaggag	aaggagcccc	acccctctcc	atgaatgcct	tcccggctcc	420
atctcctact	tgacccccag	aacccttgg	cttctgtctg	cctccccagc	acctcagttt	480
ctctaccttc	tcacctctcc	tggcagcctg	caatgagtc	tgtgccagga	accggcggac	540
ctccctgtgg	gctgtgagtc	tcagcagtc	tctactcctg	gccatagctg	gagatgtttc	600
ttttactggc	aaaggaagaa	ggaggcagta	aaggaacagg	gcagcccgca	tgtcttccag	660
aagtgaacag	aggccgcagc	tacaccgctc	acaaagttca	ctcatctctg	ggtcccgggtg	720
accccatccc	cccataccct	ccatcctggg	tcctggggcc	ccaaagctct	gaggccctagg	780
agactgcgct	gtctcgtggg	ttgcctactc	ctacaccttt	gtaaagagtc	tcttcattaa	840
aaccctctct	cataaaaaaa	aaaaaaaaaa	a			871

<210> 383  
 <211> 881  
 <212> DNA  
 <213> Homo sapiens

<400> 383						
gaattcggca	cgagggaacc	cagaagatgc	tgccctctct	gatcatctgt	ctcctgcctg	60
ccattgaagg	gaagaactgc	ctccgctgct	ggccagaact	gtctgccttg	atagactatg	120
acctgcagat	cctctgggtg	accacagggc	caccacaga	actttctcaa	agtattcact	180
ccttgttcct	agaggataat	aattttctca	aaccctggta	ccttgatcgt	gaccatttgg	240
aagaagaaac	agccaaattc	ttactcaag	tacaccaagc	cattaaaacg	ttacgagatg	300
ataaaaacagt	acttctggaa	gagatctaca	cgcacaagaa	tctctttact	gagagctga	360
ataagatatc	tgatgggctg	aaggagaagg	gagccccacc	cytctccatg	aatgccttcc	420
cggctccatc	tcctacttgc	acccagaaac	cccttggctc	tgtctgcctc	cccagcacct	480
cagtttctct	accttctcac	ctccctggca	gcctgcaatg	agtcctgtgc	caggaaccgg	540
cggacctccc	tgtgggctgt	gagtcctcagc	agtgctctac	tcctggccat	agctggagat	600
gtttctttta	ctggcaaagg	aagaaggagg	cagtaaagga	acagggcagc	ccgcatgtct	660
tccagaagtg	aacagaggcc	gcagctacca	ccgtcacaac	gttcaatcat	ctctgggtcc	720
cggtgacccc	atccccccat	acctccatc	ctgggtcctg	gggccccaaagctctgaggc		780
ctaggagact	gcgctgtctc	gtgggtttgc	tactcttaca	cctttgtaaa	gagtcctctc	840
attaaaaccc	ctcttcataa	aaaaaaaaaa	aaaaaactcg	a		881

<210> 384  
 <211> 1147  
 <212> DNA  
 <213> Homo sapiens

<400> 384						
ggcacgagac	ccattgagca	gaaggaggcc	aggtgggaaa	gctcctggga	agagcagcca	60
gactggacac	tgggctgctt	gagtcctgag	tcacaattca	gaattcctgg	gctccctggg	120
tgcattctat	cattccagtt	gaaagtttgc	ttccttccag	tcatgtggct	cttcattcta	180

ctctccttgg	ctctcatttc	agatgccatg	gtcatggatg	aaaagggtca	gagaagcttt	240
gtgctggaca	cggcttctgc	catctgcaac	tacaatgccc	actacaagaa	tcaccccaaa	300
tactggtgcc	gaggctattt	ccgtgactac	tgcaacatca	tcgccttctc	ccctaacagc	360
accaatcatg	tggccctgaa	ggacacaggg	aaccagctca	ttgtcactat	gtcctgcctg	420
aacaaagaag	acacgggctg	gtactgggtg	ggcatccagc	gggactttgc	cagggatgac	480
atggatttta	cagagctgat	tgtaactgac	gacaaaggaa	cctggccaat	gactttggtc	540
tgggaaagac	tatcaggcac	aaaaccagaa	gctgcaaggc	tcccaaagtt	gtccgcaagg	600
ctgaccgctc	caggacgtcc	atttctcatc	tttgcatact	gatacgggt	ttgggaatca	660
tctctgtaat	cagtcatttg	acaaaaagga	ggagaagtca	aaggaaataga	agggtaggca	720
acactttgaa	gcccttctcg	cgtgtcctga	ctccaaagga	aatggctcct	actgaacaga	780
tgtgactgaa	gtttttttta	atttagttca	taaagtgatg	ctacaacaga	ataatcacca	840
tgacaactgg	ccccacacct	cagagactga	ttctgatctc	ccaggaattc	tgaagggtccc	900
tctatccttg	acaacaatca	tttgagcca	ggtagcaacg	gcagtagtca	gaggagctat	960
gatagaccac	acccaagcaa	ggctgccctc	aaataacatc	tcaagatctt	agttcttatg	1020
cattccatca	gtcagaagtg	aagaagaggt	ggagaatd	gattggggac	caggaaatca	1080
cttgtatttt	gttagccaat	aaattcctag	ccagtgttga	atgaaaaaaaa	aaaaaaaaaa	1140
aaaaaaa						1147

<210> 385  
 <211> 1134  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (418)..(418)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (803)..(803)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (816)..(816)  
 <223> n equals a,t,g, or c

<400> 385						
acccattgag	cagaaggagg	ccagggtggg	aagctccttg	gaagagcagc	cagactggac	60
actgggctgc	ttgagtcctg	agtcacaatt	cagaattcct	gggctccctg	ggtgcattct	120
atcattccag	ttgaaagttt	gcttccttcc	agtcattgtg	ctcttcattc	tactctcctt	180
ggctctcatt	tcagatgcca	tggtcatgga	tgaaaagggtc	aagagaagtt	tgtgctggac	240
acggcttctg	ccatctgcaa	ctacaatgcc	caytaacaga	atcaccccaa	atactggtgc	300
cgaggytatt	tccgtgayta	ctgcaacatc	atgccttctt	cccctaacag	caccaatcat	360
gtggccctga	aggacacagg	gaaccagctc	attgtcacta	tgtcctgcct	gaacaaanaa	420
gacacgggct	ggtactgggt	tgatccar	cgggactttg	cmagggatga	catggatttt	480
acagagctga	ttgtaactga	cgacaaagga	accctggcca	atgacttttg	gtctgggaaa	540
gacctatcag	gcaacaaaac	cagaagctgc	aaggctccca	aagttgtccg	caagctgacc	600
gtccaggagc	gtccattctc	atcattttga	tactgatcac	gggtttggga	atcactctg	660
taatcagtc	tttgacaaa	aggaggagaa	gtcaaaggaa	tagaagggtg	ggcaacactt	720
tgaagccctt	ctcgctgtgc	ctgactccaa	aggaaatggc	tcctactgaa	cagatgtgac	780
tgaagwtttt	tttaattttg	ttncataaag	tgatgnctac	aacagawtaa	tcacccatga	840
caactggccc	cacacctcag	agactgattc	tgatctccca	ggaattctga	aggaccctct	900
atccttgaca	acaatcattt	gcagccaggt	agcaacggcr	gtagtccagag	gagctatgat	960
agaccacacc	caagcaaggc	tgccttcaaa	taacatctca	agatcttagt	tcttatgcat	1020
tccatcagtc	agaagtgaag	aagaggtgga	gaatctkgat	tggggaccg	gaaatcactt	1080

gtatttttgtt agccaataaaa ttcctagcca gtgttgaatg aaaaaaaaaa aaaa 1134

<210> 386  
 <211> 1598  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1067)..(1067)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1069)..(1069)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1577)..(1577)  
 <223> n equals a,t,g, or c

<400> 386  
 aggaaagaac aaaggttatt tcctggagaa aagacaatatt attcaacacc aacragggac 60  
 tcatcatatg ggcacaactc tgggtgcctt ctatggagaa aacctcaagt aaagttttat 120  
 tctgcctttr aaaatgcttc caaaagtaga ccctgtcccc acacagggtca agactacaga 180  
 gaaggctttg tagaaatgtg tcacctatgt acacctgcta cttacacatt tcctcttttg 240  
 gaaaaatgag atacttagaa taacargaaa attaagacat actggcctgg tgccagcaga 300  
 tggcttttct atagacaaac taggttagtg tggaagatat aggttaaaat aaactatgct 360  
 gttttattta tcttcccaac ctgattggca gctagacttt tttagggctct catttaatgg 420  
 ccttggtttt ttcattatta tatttaatga tagggcagga tttcgtatgc aagctcttgt 480  
 ttctcaggct gcctgcagaa gaagtcgcta taaattatct gttgtctaca tgggtacaagg 540  
 cccattgact catctgatgc ttgttttgtt aatttcttta atatttttat cacggggcag 600  
 tgggagggtc tgggctttta gccacagctg ttttaagact tctgatctcc tgccctgcag 660  
 gaataggttg gaagtcattg aattttttaca ctatagtaat ttgcattccc acataagttt 720  
 gagtgttacg aaaacattcc tttaaagggg tctgtgctac acaaaatatg ccaggacctc 780  
 acagacaaag ccattgctag aaatgtcatt ccaatgatca gatctggaaa caggctgccca 840  
 taaccacttt tcttcttgt agactcagct cacctgtata tttaaactgt tcttggcatc 900  
 ttgaaacacc tatttctact caggactca ttgtcctggt actgattcac ctttctgac 960  
 cttttcaacc agttttcccc caagggggga aattttactt aacctctagt atttgaacaa 1020  
 ctcaatattt gaattgttgc cccatttgct tttacctgta ctgtatncnt ggtcatctca 1080  
 aatggcgtct aaaccagct actttgcatt ccagaagttt ccattccctc caatccacc 1140  
 taatttttca tctgtcctag ttactggctc tttcttcatg tcttatttct cttgctttgg 1200  
 gagcttaaaa gattttacaa gacctaatat tgggttcctt ccttggagcc atagttaccc 1260  
 tgccaagaag agtagaaaat gggttcaact cctgtttcgc tccaccaaca cctctgtgag 1320  
 tctcatcatc agctgagga tgatgcctta caggttgcat agcactggaa ctttccctaga 1380  
 gtaacggctc tgctgccagg gtttctctgg gctcattctt ccaactgactt aattatgac 1440  
 tatgcctaac agagccccag tacaactatt ttgcagaatg gctgttacct tagaattact 1500  
 atagcacata ttgagatata gttgtactcc ctatagata ggaactgac ccaacaataa 1560  
 actttgataa taaaganaaa aaaaaaaaaa actcgtag 1598

<210> 387  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<220>

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<221> misc_feature
<222> (517)..(517)
<223> n equals a,t,g, or c

<400> 387
gcctggcaga gagactctga aatgagggat tagaggtggt caaggagcaa gagcttcagc      60
ctgaagacaa gggagcagtc cctgaagacg cttctactga gaggtctgcc atggcctctc      120
ttggcctcca acttggtgggc tacatcctag gccttctggg gcttttgggc aactgggtg      180
ccatgctgct cccagctgg aaaacaagtt cttatgtcgg tgccagatt gtgacagcag      240
ttggcttctc caagggcctc tggatggaat gtgccacaca cagcacaggc atcaccagc      300
gtgacatcta tagcaccctt ctgggcctgc ccgtgacat ccaggctgcc caggccatga      360
tggtgacatc cagtgcattc tcctccctgg cctgcattat ctctgtggtg ggcatgagat      420
gcacagtctt ctgccaggaa tcccagacca aagacagagt ggcggtagca ggtggagtct      480
ttttcatcct tggaagcctc ctgggattca ttcctgntgc ctggaatctt      530

<210> 388
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (33)..(33)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (441)..(441)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (460)..(460)
<223> n equals a,t,g, or c

<400> 388
gagaagtcag cctngcagag agactctgaa atnagggatt agaggtgttc aaggagcaag      60
agcttcagcc tgcaagacaa gggagcagtc cctgaagacg cttctactca ccactggtgc      120
ctgacagcat gaaatttgag attggagagg ctctttactt gggcattatt tcttccctgt      180
tctccctgat akctggaatc atcctctgct ttcctgctc atscagaga aatcgctcca      240
actactacga tgccaccaa gcccaacctc ttgccacaag gagctctcca aggcttggtc      300
aacctcccaa agtcaagagt gattcaatt cctacagcyt gacagggtat gtgtgaagaa      360
ccagggggcca garctggggg ktggctgggt ctgtgaaaaa cagtggacag caccggagg      420
ccacaggtga gggacattac nactggatcg tgtcagaagn tgctgctgag gatagactga      480
ctttggccat tggattgagc aaaggcagaa atgggggcta gtgtaacagc atgcaggttg      540
aattgccaag gatgctcgcc atgccagcct ttctgttttc ctcaccttgc tgstccctg      600
ccctaagtcc ccaaccctca acttgaacc ccattccctt aagccaggac tcagaggatc      660
cctttgccct ctggtttacc tgggactcca tccccaaacc cactaatcac atcccactga      720
ctgaccctct gtgatcaaa accctctctc tggctgaggt tggctcttag ctcatgtctg      780
gggatgggaa ggagaagcag tggcttttgt gggcattgct ctaacctact tctcaagct      840
ccctccaaag aaactgattg gccctggaac ctccatccca ctcttggtat gactccacag      900
tgtccagact aatttgtgca tgaactgaaa taaaaccatc ctacggtatc cagggaacag      960

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aaagcaggat gcaggatggg aggacaggaa ggcagcctgg gacattttaa aaaaaaaaaa 1020
aaaaaactcg aggggggggc ggtac 1046

```

```

<210> 389
<211> 819
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (786)..(786)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (819)..(819)
<223> n equals a,t,g, or c

```

```

<400> 389
aattcggcac gagctcaaag agtaagaatc caagtgtgtg acattacata gctttgcac 60
tatggaaacc taaatcataa ttgtttccac tgcccaatta tgttcctttt cataacattt 120
actattctgg ctatatttat catagaacct aggaacctta gagttgacct gaatctaatt 180
aaatttcaga cctcctggcc aaagacccta gtggaagagc aaaactaaat caacatatta 240
ccaatctcaa gtatttctct gaggaccag accactgact ttttgttgtc attttcaggt 300
tgatcctata actgtatgtt ctacaatatc tgtgctccac cagctcagtg aggaatcaac 360
ggaatatcaa aagtaaatat tggtcaccat ataccttttg gtactatgct acgaaataat 420
tggtgagga actgtttcat attaaagaaa agctaaaagc aatgtgtgat cttagattag 480
acctatgatt ggaatgatg tataatttat atacaaaata ttgaggaaat tgacaaaatt 540
taaatacaga atatggatta gataatagga atgtatcaag gtcaatattt aaaaagataa 600
tttcaacttt tattttatcc agtgggtaca tgtgcagact ttgttttaca tagtacccaa 660
cagtttttca acgcttatcc cccaccctct agtaatctgc agwgcwtatt attgycatct 720
tcgtggctat tgtacatggg atccatactt gattttgctc tcaacatgaa cattattggt 780
gtaganaaat gccactaagt tttkgtagct tggcttttn 819

```

```

<210> 390
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(2)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (12)..(12)
<223> n equals a,t,g, or c

```

```

<400> 390
nncccccaa tnatatTTTT ccaaattaat tccaacatag gaaggattcc accttcctag 60
tatgttttca aattgtttca aacctgacct ctttttgatt gctctacctt ccaaaagaaa 120
agaagggaac actaatTTTt tTycctgatt tacttcattg ttttcttctg ttagattaac 180
tttacctata aaagattgtc tcttgacttt atatatatat aatgtgtgt gtgtgtgtgt 240
gtgtgtgtgt gtgtgtgtgt gtgtgtgtat ttgaagagga catgtgcctc cataaaagga 300
aataaaatga gagaatacat tattgatttt gtgaaatcaa aatatttgaa ttatggtttc 360
tcaatatcca aaaactcttg cagtttctgt acttatttct tctgatgcat agagtttcgg 420

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ggactacata	tgtttcacaa	ccaaagatat	ccacttgaaa	taaaaacatt	ataaagttaa	480
aaaaaaaaa	aaaaactcga	g				501

<210> 391  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

<400> 391						
ggcagagct	gctcttcttc	ttcaacatgc	tcttctgggt	gtttccatg	gtgatgggtg	60
ctgtgggtgt	ctacgctcgg	ctaataaagc	atgcagttct	ccctctgcct	caccgctgtg	120
ttcctgctgc	agctggccgc	tgggatcctg	ggcttcgtct	tctcagacaa	ggctcgaggg	180
aaagtgagtg	agatcatcaa	caatgccatt	gtgcactacc	gagatgactt	ggatctgcag	240
aacctcattg	attttggcca	gaaaaaggta	tgggtcagcc	agtggctctg	gggactgtgg	300
gtaaaagtga	atgtcatccc	aagagatgcc	tcacctctta	tgcctgtggg	gctcttcatt	360
acctgccagg	taatggcttc	tgggaagggg	tttggcaaaa	aaagcacacg	tagcagagtg	420
ctttaaatgt	acttttaaa	acacagaaca	gtataatag	taatctactg	tggtataaat	480
ggttacttac	agggggtgag	gaactgggca	gattcttgaa	tattacctct	tcaaaagtga	540
cattttagtc	tgggtccaaag	ggagtgaagt	atctcatttg	attgttcaca	gtcagctaca	600
gatccaactc	cttgtttctac	tctttccccc	cttctcagtg	ctgcacttga	ctagactaaa	660
aaaaaaaaa	aaaaa					675

<210> 392  
 <211> 884  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (873)..(873)  
 <223> n equals a,t,g, or c

<400> 392						
ggccgacgcc	tgggggtgtg	agctgcccc	cccccacccc	gtgggagagt	ggatcaagaa	60
gaaaaaacct	ggcccgagag	tcgaagggcc	gccccaggcc	aacagaaatc	acccggcctt	120
acctctgttc	ccacccttac	cttcccccc	ataccgcccc	ctgcttgggt	tcccacccca	180
gcgcttgccg	ctgctcccg	tectgtcccc	acagcctcct	cctcccatc	tccatcacca	240
gggaatgcc	cggttccac	aggttcccc	agatgcctgt	tttctctcag	accatacttt	300
ccagtcggat	caattctatt	gccattcaga	tgtccccctc	tcagcccatg	caggtttctt	360
cgtcgaagac	aattttatgg	ttggtcctca	gctgcctatg	cccttcttcc	ccacaccccg	420
ttatcagcgg	cctgccccag	tggtagatag	gggttttggc	aggtatcgtc	cccgtggccc	480
ctatacgccc	tggggacagc	ggcctcgacc	ttcaaagaga	agggccccag	ccaatcctga	540
gccaaggcct	caatagacgg	acctaggcct	tatttctctt	ttatgaacat	ggattggaca	600
gatctgacac	ttcctttcca	ttgcttggcc	tgaacagact	gaccttggtt	acttaagctc	660
ggagtccatg	cctcgtcttc	cttttgttca	ttgctgttac	caagaaagcc	aaggaagagc	720
agcctgactc	attcttcttg	gctgcagcct	cttccccact	tcttgggagt	gacccagcgt	780
tattcctgcc	tctcactcc	tattctcttt	gcctttgtgt	aaaaataaaa	tggaaataaa	840
caagttgcac	agaaaaaaa	aaaaaaa	aancccaagg	ggg		884

<210> 393  
 <211> 3306  
 <212> DNA  
 <213> Homo sapiens

<400> 393						
ccacgcgtcc	ggcccagggc	tgtctgtctc	caaagcccaa	ccataactca	catccccatt	60
ccagctcctc	tgggtgagtc	tgttccccct	cagcctcact	ttccttatcc	tgtcaaaa	120

aggatttggga	atgacttaag	ttattcaagc	aacaaacact	tactgaattg	tcttgccact	180
tccaggggtga	cattatggag	ttctgtgatt	ctgcaagagg	ccagagggga	caaggtcaag	240
tgggtgttca	cctggccccct	catcttctct	ctgtgcgtca	ccattcccaa	ctgcagcaag	300
ccccgctggg	agaagttctt	atggtcacc	ttcatcaacg	ccacgctgtg	gatcgctgtg	360
ttctctaca	tcatggtgtg	gctggtgact	attatcgga	acacacttgg	gatcccggat	420
gtcatcatgg	gcattacttt	cctggcagca	ggacaagtgt	tccagactgc	atggccagcc	480
taattgtggc	gagacaaggc	cttggggaca	tggcagtctc	caacaccata	gagcaacgt	540
gtttgacatc	ctggtaggac	ttggtgtacc	gtggggcctg	cagaccatgg	ttgttaatta	600
tggatcaaca	gtgaagatca	acagccgggg	gctggtctat	tccgtgggtcc	tgttgctggg	660
ctctgtcgct	ctcacccgtcc	tcggcatcca	cctaacaag	tggcgactgg	accggaagct	720
gggtgtctac	gtgctgtt	tctacgcca	cttctgtgc	ttctccataa	tgatagagtt	780
taacgtcttt	accttcgtca	acttgccgat	gtgccgggaa	gacgattagc	gctgagtcgc	840
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cccaccacag	gtctctcctg	cataggcagc	cactgtccgt	tctttccac	actggaagga	960
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tgagctgcca	accacggaga	tgtgccaaag	tctgcacac	tttagtcaga		1140
aggactttctg	catgcagttt	gtctttctgt	tctgcaggca	gcttcagaat	tgaggtcatt	1200
tgtgagcaca	agatctcata	gggcaggtgc	aaaataggaa	tgttgttctc	aagtgtcacc	1260
tccagcccag	aggtggttcc	ttaggcagca	tgtgtcctg	ggagcctctg	acttttgctg	1320
gaagcaccca	cagtttgga	ggggcaagac	ctcaacctgt	tgggttttag	ggcccatgat	1380
ggcagacatt	ctaccctttt	tcctggaaaa	actggaagaa	tgaaaaaat	ttttttctgt	1440
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<211> 2194

<212> DNA  
 <213> Homo sapiens

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<220>  
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<220>  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<400> 396

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 <212> DNA  
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<220>  
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 <222> (33)..(33)  
 <223> n equals a,t,g, or c

<400> 397

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actgacaacc	tggatgtaaa	taggagcctt	tctactgggt	tatttaataa	agttctatgt	2880
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<210> 398  
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<220>  
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<400> 398						
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gggagaatgg	acgggttctg	ggagaccaga	tgggtctcaga	cactgagctc	caggaaatgt	180
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agataaagac	actaatagaa	caaacaaacg	aggagcgcaa	atccctgtc	accaacttgg	300
aagaagccaa	gaagaagaaa	gaggatgccc	tgaatgacac	caaggattca	gaaatgaagc	360
tgaaggcgtc	cccaggggtt	ttcaatgnca	cccttgatgg	ccctctggga	ggantttaag	420
cccttccttg	aaaacagacc	tgtattgaag	ttctaagncc	cgagtcttcc	agaagccagc	480
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<220>

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<223> n equals a,t,g, or c

<400> 399

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agataaagac	actaatagaa	caaacaaaacg	agagcgcaa	atccctgctc	ascaacytgg	300
aagaagccaa	gaagaagaaa	gaggatgccc	tgaatgacac	caaggattca	gaaatgaagc	360
tgaaggcgtc	cccaggggtt	ttcaatgnca	cccttgatgg	ccctctggga	ggantttaag	420
cccttccttg	aaaacagacc	tgtattgaag	ttctaagncc	cgagtcttcc	agaagccagc	480
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<211> 1670

<212> DNA

<213> Homo sapiens

<400> 400

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aatggacggg	ttctgggaga	ccagatggtc	tcagacactg	agctccagga	aatgtccacc	180
gaggggagta	agtacattaa	tcgggaaatt	aaaaatgctc	tcaagggggg	gaagcagata	240
aagacactaa	tagaacaac	aaacgaggag	cgaaaatccc	tgctcaccaa	cttgggaagaa	300
gccaagaaga	agaaagagga	tgccctgaat	gacaccaagg	attcagaaat	gaagctgaag	360
gcgtcgcagg	gggtgtgcaa	tgacaccatg	atggccctct	gggaggagtg	taagccctgc	420
ctgaaacaga	cctgggggaa	gggtctacgc	ccgagtctgc	agaagcagca	cagggctggt	480
tggccaccag	gttgaggagt	tcctgacca	gagttctccc	ttctacttct	ggattaatgg	540
cgaccgcctc	gactccctgc	tggagaacga	ccggcagcag	acccacgccc	tggatgtcat	600
gcaggacagt	ttcgaccggg	catccagcat	catggatgag	ctgttccagg	acagattctt	660
caccctgtag	gccagagacc	ctttccactt	ctcacccttc	agctcattcc	agcggagcc	720
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caaccaggac	ggcgccgtgt	gcaaggagat	ccgtcacaa	tccacagggt	gcctgaagat	960
gaaggaccag	tgtgaaaagt	gccgggagat	cttgtctgtg	gactgttcgt	ccaacaaccc	1020
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caagcttgta	cgacgagctg	ctgcagtcct	accaggagaa	gatgttcaac	acgtcctccc	1140
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cccttcagga	ataccgccag	aagagccggg	aggagtgaga	tgggaacact	gcctctccac	1440
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tgcatgtcac	cgagtgaccg	ggccttcctt	gagggccctc	tgtccctca	ccccgcctgt	1560
cctccctctg	gactctgcat	tgtaacaccg	tgttcaactga	tcatgggaag	aactcctgtg	1620
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<210> 401  
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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 gtgaggggac aggagggcct caaggaaggc ccggtcactc ggtgacatgc agagctctct 180  
 ctaggggcct atcgtctatc gcgggggcca cagaactcag acacctgcca tgtggagagg 240  
 cagtgttccc atctcactcc tcccggctct tctggcggta ttctgaagg gctttctctg 300  
 ccacggtctc cataaattta ggattgttcc tggagaggtc ttctgggagg atcacggtga 360  
 tgggggtcga atcaaagagc ttcacaaca ccttagtgac gccagaggga gcaactggagt 420  
 cagaagtctg ggaactcacc gtcgtgacct ggagatagaa cgggtcctca gtctgagtga 480  
 gattcgccag ctgggacacc cagctaaact gtcgtgccag ctgcttcacc aggragracg 540  
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 nctana 606

<210> 402  
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 <212> DNA  
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<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (57)..(57)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (101)..(101)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (703)..(703)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (779)..(779)

<223> n equals a,t,g, or c

<400> 402

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cgtccagctt	gcttcagcag	gaagacgtgt	tgaacatctt	ctcctggtag	gactgcagca	180
gctcgtcgta	caagcttggt	gaacttctct	gcaatctgga	gggaattatt	aagttcctgt	240
cgcagctgga	cctgagcggg	gttgttggac	gaacagtcca	cgacaagat	ctcccggcac	300
ttttcacact	ggtccttcat	cttcaggcac	cctgtggagt	tgtgacggat	ctccttgcac	360
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aggttaacat	ccatggcctg	ctgagcctgg	tgtatcatgt	cgaagaaggg	ctgaaacatg	480
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cggtcgaaac	tgtcctgcat	gacatccagg	gcgtggct	gcnaccgggc	gttctccagc	720
agggagtcga	tgcggtcgcc	attaatccag	aagtagaagg	gagaactctg	gttcagganc	780
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<210> 403

<211> 868

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

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<222> (23)..(23)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (31)..(31)

<223> n equals a,t,g, or c

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<221> misc\_feature

<222> (45)..(45)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (860)..(860)

<223> n equals a,t,g, or c

<400> 403

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gtgaggtcac	tgtgccagcc	cagaacactg	gtctggggcc	cgagaagacc	tccttcttcc	300
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cccctgtggc	cgctgccacc	actgctgcac	ctgctgctgc	tgacagccca	gccaaagtgt	780
aagcaaagga	agagtcggag	gaawcggatg	agagkattkt	camttcganaat	cagcaaaa	840
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<210> 404

<211> 1540

<212> DNA

<213> Homo sapiens

<400> 404

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aaaaccatct	tctccaagct	gccattgaca	acaatatgga	taacaataat	aacaataagg	960
ccaataaac	tcctttatct	cttcttcagg	gggccatact	gacatcttct	cttcttgggt	1020

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<210> 405
<211> 207
<212> PRT
<213> Homo sapiens

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Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser
      20             25             30

Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Leu
      35             40             45

Pro Ala Cys Leu Asn Pro Val Leu Tyr Val Phe Phe Asn Pro Lys Phe
      50             55             60

Lys Glu Asp Trp Lys Leu Leu Lys Arg Arg Val Thr Lys Lys Ser Gly
      65             70             75             80

Ser Val Ser Val Ser Ile Ser Ser Gln Gly Gly Cys Leu Glu Gln Asp
      85             90             95

Phe Tyr Tyr Asp Cys Gly Met Tyr Ser His Leu Gln Gly Asn Leu Thr
      100            105            110

Val Cys Asp Cys Cys Glu Ser Phe Leu Leu Thr Lys Pro Val Ser Cys
      115            120            125

Lys His Leu Ile Lys Ser His Ser Cys Pro Ala Leu Ala Val Ala Ser
      130            135            140

Cys Gln Arg Pro Glu Gly Tyr Trp Ser Asp Cys Gly Thr Gln Ser Ala
      145            150            155            160

His Ser Asp Tyr Ala Asp Glu Glu Asp Ser Phe Val Ser Asp Ser Ser
      165            170            175

Asp Gln Val Gln Ala Cys Gly Arg Ala Cys Phe Tyr Gln Ser Arg Gly
      180            185            190

Phe Pro Leu Val Arg Tyr Ala Tyr Asn Leu Pro Arg Val Lys Asp
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<210> 406  
 <211> 114  
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 <213> Homo sapiens

<220>  
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<400> 406  
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 Leu Phe Leu Phe Asn Phe Ile Phe Cys Phe Met Ser Val Cys Pro Pro  
 20 25 30  
 Thr Pro Thr Pro Phe Ser Val Lys Trp Gly Ala Leu Gly Glu Ser Leu  
 35 40 45  
 Leu Pro Pro Ser Leu Ser Gln Asp Leu Pro Pro Arg His Gln Pro Ser  
 50 55 60  
 Leu Trp Thr Arg Gln Arg Ala Asp Arg Val Gly Arg Gly Leu Arg Val  
 65 70 75 80  
 Ala Arg Ala Ser Pro Pro Ala Asn Gly Pro Leu Leu Arg Pro Phe Val  
 85 90 95  
 Ser Pro Cys Pro Phe Leu Lys Gln Asn Ala Leu Val Cys Lys Pro Leu  
 100 105 110  
 Asp Ala

<210> 407  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 407  
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 Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly  
 20 25 30  
 Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu  
 35 40 45  
 Ser

<210> 408  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 408  
 Met Gly Ser Ala Ala Leu Glu Ile Leu GlyLeu Val Leu Cys Leu Val  
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 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val  
 20 25 30  
 Thr Ala Phe Leu Asp His Asn Ile Val Thr AlaGln Thr Thr Trp Lys  
 35 40 45  
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys  
 50 55 60  
 Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala  
 65 70 75 80  
 Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe  
 85 90 95  
 Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro GlyPro  
 100 105 110  
 Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys  
 115 120 125  
 Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val  
 130 135 140  
 Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu  
 145 150 155 160  
 Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val  
 165 170 175  
 Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro  
 180 185 190  
 Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala  
 195 200 205  
 Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val  
 210 215

<210> 409  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (16)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
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 <222> (54)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 409  
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 Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys  
                   20                  25                  30  
 Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu  
                   35                  40                  45  
 Phe Leu Ile Pro Ala Xaa Glu Ala Leu Leu Trp Glu Lys Glu  
                   50                  55                  60  
  
  
 <210> 410  
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 <212> PRT  
 <213> Homo sapiens  
  
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 His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys  
                   20                  25                  30  
 Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly  
                   35                  40                  45  
 Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn  
                   50                  55                  60  
 Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile  
   65                  70                  75                  80  
 Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr  
                   85                  90                  95  
 Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Gln  
                   100                  105                  110  
 Leu Val Leu Glu Asn Val Lys Val Leu Lys  
                   115                  120  
  
  
 <210> 411  
 <211> 91

<212> PRT

<213> Homo sapiens

<400> 411

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20 25 30  
Ser Arg Leu Val Tyr Leu Cys Lys Ala Cys Leu Arg Leu Glu Tyr Leu  
35 40 45  
Gly Lys Glu Ser Asp Ser Met Leu Ser Glu Phe Leu Lys Gly Gln Lys  
50 55 60  
Lys Asn Trp Arg Leu Leu Lys Cys Arg Phe Glu Val Ile Phe Leu Lys  
65 70 75 80  
Tyr Tyr Phe Gly Phe Cys Asp Ile Val Lys Asn  
85 90

<210> 412

<211> 50

<212> PRT

<213> Homo sapiens

<400> 412

Met Leu Thr Tyr Leu Pro Arg Trp Cys Phe Leu Ser Leu Pro Pro Pro  
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Cys Cys Gly Ala Ala Ser Cys Thr Met Met His Ile Gln Ile Ile Leu  
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Asn Thr His Ile Leu Ile Glu Arg Phe Leu Gly Phe Leu Leu Asn Gln  
35 40 45  
Val Tyr  
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<210> 413

<211> 446

<212> PRT

<213> Homo sapiens

<400> 413

Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu Ser  
1 5 10 15  
His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser  
20 25 30  
Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu Glu Leu Asp

35	40	45
Ala Glu Val Leu Glu Val	Phe His Pro Thr His Glu Trp Gln Ala Leu	
50	55	60
Gln Pro Gly Gln Ala Val	Pro Ala Gly Ser His Val Arg Leu Asn Leu	
65	70	75
Gln Thr Gly Glu Arg Glu Ala Lys Leu	Gln Tyr Glu Asp Lys Phe Arg	
	85	90
Asn Asn Leu Lys Gly Lys Arg Leu Asp Ile Asn Thr Asn Thr Tyr Thr		
100	105	110
Ser Gln Asp Leu Lys Ser Ala Leu Ala Lys Phe Lys Glu Gly Ala Glu		
115	120	125
Met Glu Ser Ser Lys Glu Asp Lys Ala Arg Gln Ala Glu Val Lys Arg		
130	135	140
Leu Phe Arg Pro Ile Glu Glu Leu Lys Lys Asp Phe Asp Glu Leu Asn		
145	150	155
Val Val Ile Glu Thr Asp Met Gln Ile Met Val Arg Leu Ile Asn Lys		
	165	170
Phe Asn Ser Ser Ser Ser Ser Leu Glu Glu Lys Ile Ala Ala Leu Phe		
180	185	190
Asp Leu Glu Tyr Tyr Val His Gln Met Asp Asn Ala Gln Asp Leu Leu		
195	200	205
Ser Phe Gly Gly Leu Gln Val Val Ile Asn Gly Leu Asn Ser Thr Glu		
210	215	220
Pro Leu Val Lys Glu Tyr Ala Ala Phe Val Leu Gly Ala Ala Phe Ser		
225	230	235
Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly Ala Leu Gln		
	245	250
Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr Ala Lys Lys		
260	265	270
Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe Pro Tyr Ala		
275	280	285
Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val Leu Arg Thr Leu		
290	295	300
Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val Arg Val Val Thr Leu		
305	310	315
Leu Tyr Asp Leu Val Thr Glu Lys Met Phe Ala Glu Glu Glu Ala Glu		
	325	330
		335
Leu Thr Gln Glu Met Ser Pro Glu Lys Leu Gln Gln Tyr Arg Gln Val		

340		345		350
His Leu Leu Pro Gly Leu Trp Glu Gln Gly Trp Cys Glu Ile Thr Ala				
355		360		365
His Leu Leu Ala Leu Pro Glu His Asp Ala Arg Glu Lys Val Leu Gln				
370		375		380
Thr Leu Gly Val Leu Leu Thr Thr Cys Arg Asp Arg Tyr Arg Gln Asp				
385		390		400
Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu Tyr Gln Val				
	405		410	415
Leu Ala Ser Leu Glu Leu Gln Asp Gly Glu Asp Glu Gly Tyr Phe Gln				
	420		425	430
Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg				
435		440		445

<210> 414  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 414
Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Thr His
1 5 10 15
Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His
20 25 30
Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pro
35 40 45
Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Glu
50 55 60
Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly
65 70 75 80

r Trp Pro ~~Eu~~ Leu Gln  
95

o Ser Val Met Trp Gly  
110

p Gln Ser Lys ~~Ep~~ Pro  
125

g Gly  
140

, Cys Ala Arg Ala Ser  
15

~ Val Ala Ser Leu Gly  
30

Glu Asn Tyr Lys Gln  
45

, Val Glu His Ile Lys  
60

, I~~e~~ Ser Arg Gly Lys  
, 80

Asp Pro Gly Ser Pro  
95

Leu Tyr Asp Asn Glu  
110

Gly Arg Val Ser Gly  
125

Val Lys G~~y~~ Gly Ala  
140

Ala Gln Glu Ile Ala  
160

Asp Ser Gly Gly A~~d~~  
175

Arg Asp His Phe Gly  
190

Arg Thr Phe Tyr Asn Gln Ala Ile Met Ser Ser Lys Asn Ile Ala Gln  
 195 200 205  
 Ile Ala Val Val Met Gly Ser Cys Thr Ala Gly Gly Ala Tyr Val Pro  
 210 215 220  
 Ala Met Ala Asp Glu Asn Ile Ile Val Arg Lys Gln Gly Thr Ile Phe  
 225 230 235 240  
 Leu Ala Gly Pro Pro Leu Val Lys Ala Ala Thr Gly Glu Glu Val Ser  
 245 250 255  
 Ala Glu Asp Leu Gly Gly Ala Asp Leu His Cys Arg Lys Ser Gly Val  
 260 265 270  
 Ser Asp His Trp Ala Leu Asp Asp His His Ala Leu His Leu Thr Arg  
 275 280 285  
 Lys Val Val Arg Asn Leu Asn Tyr Gln Lys Lys Leu Asp Val Thr Ile  
 290 295 300  
 Glu Pro Ser Glu Glu Pro Leu Phe Pro Ala Asp Glu Leu Tyr Gly Ile  
 305 310 315 320  
 Val Gly Ala Asn Leu Lys Arg Ser Phe Asp Val Arg Glu Val Ile Ala  
 325 330 335  
 Arg Ile Val Asp Gly Ser Arg Phe Thr Glu Phe Lys Ala Phe Tyr Gly  
 340 345 350  
 Asp Thr Leu Val Thr Gly Phe Ala Arg Ile Phe Gly Tyr Pro Val Gly  
 355 360 365  
 Ile Val Gly Asn Asn Gly Val Leu Phe Ser Glu Ser Ala Lys Lys Gly  
 370 375 380  
 Thr His Phe Val Gln Leu Cys Cys Gln Arg Asn Ile Pro Leu Leu Phe  
 385 390 395 400  
 Leu Gln Asn Ile Thr Gly Phe Met Val Gly Arg Glu Tyr Glu Ala Glu  
 405 410 415  
 Gly Ile Ala Lys Asp Gly Ala Lys Met Val Ala Ala Val Ala Cys Ala  
 420 425 430  
 Gln Val Pro Lys Ile Thr Leu Ile Ile Gly Gly Ser Tyr Gly Ala Gly  
 435 440 445  
 Asn Tyr Gly Met Cys Gly Arg Ala Tyr Ser Pro Arg Phe Leu Tyr Ile  
 450 455 460  
 Trp Pro Asn Ala Arg Ile Ser Val Met Gly Gly Glu Gln Ala Ala Asn  
 465 470 475 480  
 Val Leu Ala Thr Ile Thr Lys Asp Gln Arg Ala Arg Glu Gly Lys Gln  
 485 490 495

Phe Ser Ser Ala Asp Glu Ala Ala Leu Lys Glu Pro Ile Ile Lys Lys  
                   500                  505                  510  
 Phe Glu Glu Glu Gly Asn Pro Tyr Tyr Ser Ser Ala Arg Val Trp Asp  
                   515                  520                  525  
 Asp Gly Ile Ile Asp Pro Ala Asp Thr Arg Leu Val Leu Gly Leu Ser  
                   530                  535                  540  
 Phe Ser Ala Ala Leu Asn Ala Pro Ile Glu Lys Thr Asp Phe Gly Ile  
 545                  550                  555                  560  
 Phe Arg Met

<210> 416  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 416  
 Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser  
   1                  5                  10                  15  
 Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro  
                   20                  25                  30  
 Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile  
                   35                  40                  45  
 Ser Met Ser Leu Ser  
                   50

<210> 417  
 <211> 421  
 <212> PRT  
 <213> Homo sapiens

<400> 417  
 Met Thr Val Phe Phe Lys Thr Leu Arg Asn His Trp Lys Lys Thr Thr  
   1                  5                  10                  15  
 Ala Gly Leu Cys Leu Leu Thr Trp Gly Gly His Trp Leu Tyr Gly Lys  
                   20                  25                  30  
 His Cys Asp Asn Leu Leu Arg Arg Ala Ala Cys Gln Glu Ala Gln Val  
                   35                  40                  45  
 Phe Gly Asn Gln Leu Ile Pro Pro Asn Ala Gln Val Lys Lys Ala Thr  
                   50                  55                  60  
 Val Phe Ser Ile Leu Gln Leu Ala Lys Glu Lys Pro Gly Leu Tyr Leu  
   65                  70                  75                  80

Lys Lys Met Leu Pro Asp Phe Thr Phe Ile Trp His Gly Cys Asp Tyr  
                                     85                                    90                                    95  
 Cys Lys Thr Asp Tyr Glu Gly Gln Ala Lys Lys Leu Leu Glu Leu Met  
                                     100                                    105                                    110  
 Glu Asn Thr Asp Val Ile Ile Val Ala Gly Gly Asp Gly Thr Leu Gln  
                                     115                                    120                                    125  
 Glu Val Val Thr Gly Val Leu Arg Arg Thr Asp Glu Ala Thr Phe Ser  
                                     130                                    135                                    140  
 Lys Ile Pro Ile Gly Phe Ile Pro Leu Gly Glu Thr Ser Ser Leu Ser  
                                     145                                    150                                    155                                    160  
 His Thr Leu Phe Ala Glu Ser Gly Asn Lys Val Gln His Ile Thr Asp  
                                     165                                    170                                    175  
 Ala Thr Leu Ala Ile Val Lys Gly Glu Thr Val Pro Leu Asp Val Leu  
                                     180                                    185                                    190  
 Gln Ile Lys Gly Glu Lys Glu Gln Pro Val Phe Ala Met Thr Gly Leu  
                                     195                                    200                                    205  
 Arg Trp Gly Ser Phe Arg Asp Ala Gly Val Lys Val Ser Lys Tyr Trp  
                                     210                                    215                                    220  
 Tyr Leu Gly Pro Leu Lys Ile Lys Ala Ala His PhePhe Ser Thr Leu  
                                     225                                    230                                    235                                    240  
 Lys Glu Trp Pro Gln Thr His Gln Ala Ser Ile Ser Tyr Thr Gly Pro  
                                     245                                    250                                    255  
 Thr Glu Arg Pro Pro Asn Glu Pro Glu Glu ThrPro Val Gln Arg Pro  
                                     260                                    265                                    270  
 Ser Leu Tyr Arg Arg Ile Leu Arg Arg Leu Ala Ser Tyr Trp Ala Gln  
                                     275                                    280                                    285  
 Pro Gln Asp Ala Leu Ser Gln Glu Val Ser Pro Glu Val TrpLys Asp  
                                     290                                    295                                    300  
 Val Gln Leu Ser Thr Ile Glu Leu Ser Ile Thr Thr Arg Asn Asn Gln  
                                     305                                    310                                    315                                    320  
 Leu Asp Pro Thr Ser Lys Glu Asp Phe Leu Asn Ile Cys Ile Glu Pro  
                                     325                                    330                                    335  
 Asp Thr Ile Ser Lys Gly Asp Phe Ile Thr Ile Gly Ser Arg Lys Val  
                                     340                                    345                                    350  
 Arg Asn Pro Lys Leu His Val Glu Gly Thr Glu Cys Leu Gln Ala Ser  
                                     355                                    360                                    365  
 Gln Cys Thr Leu Leu Ile Pro Glu Gly Ala Gly Gly Ser Phe Ser Ile  
                                     370                                    375                                    380

Asp Ser Glu Glu Tyr Glu Ala Met Pro Val Glu Val Lys Leu Leu Pro  
 385 390 395 400  
 Arg Lys Leu Gln Phe Phe Cys Asp Pro Arg Lys Arg Glu Gln Met Leu  
 405 410 415  
 Thr Ser Pro Thr Gln  
 420

<210> 418  
 <211> 242  
 <212> PRT  
 <213> Homo sapiens

<400> 418  
 Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys  
 1 5 10 15  
 Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys  
 20 25 30  
 Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val  
 35 40 45  
 Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala  
 50 55 60  
 Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile  
 65 70 75 80  
 Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser  
 85 90 95  
 Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala  
 100 105 110  
 Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr  
 115 120 125  
 Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu  
 130 135 140  
 Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly  
 145 150 155 160  
 Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala  
 165 170 175  
 Leu Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu  
 180 185 190  
 Ala Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala  
 195 200 205

Tyr Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu  
 210 215 220

Leu Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr  
 225 230 235 240

Asp Gly

<210> 419  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 419  
 Met Ala Thr Leu Gln Ile Thr Thr Ala Met Lys Ile Thr Met Met Ile  
 1 5 10 15

Thr Met Val Met Ile Ile Thr Thr Ile Val Glu Ala Met Lys Ile Pro  
 20 25 30

Thr Thr Ala Met Met Met Ala Met Gln  
 35 40

<210> 420  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 420  
 Met Tyr Ile Phe Glu Leu Ser Leu Tyr Leu Glu Gly Thr Ser Phe Val  
 1 5 10 15

Val Val Leu Leu Phe Leu Leu Ile Ser Val Ser Leu Asp Ser Pro Pro  
 20 25 30

Thr Thr Lys Gly Trp Asp Ser Val Leu His Ile Trp Val Pro Leu Ile  
 35 40 45

Val Gln  
 50

<210> 421  
 <211> 189  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 421

Met Ala Leu Leu Ser Arg Pro Ala Leu Thr Leu Leu Leu Leu Leu Met  
1 5 10 15  
Ala Ala Val Val Arg Cys Gln Glu Gln Ala Gln Thr Thr Asp Trp Arg  
20 25 30  
Ala Thr Leu Lys Thr Ile Arg Asn Gly Val His Lys Ile Asp Thr Tyr  
35 40 45  
Leu Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln  
50 55 60  
Tyr Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys  
65 70 75 80  
Pro Ser Pro Pro Asn Gly Cys Gly Ser Pro Bu Phe Gly Xaa His Leu  
85 90 95  
Asn Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg  
100 105 110  
Cys Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Qs Asp Glu Glu Phe  
115 120 125  
Gln Tyr Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly  
130 135 140  
Leu Thr Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe  
145 150 155 160  
Asp Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg  
165 170 175  
Ala Ala Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu  
180 185

<210> 422

<211> 140

<212> PRT

<213> Homo sapiens

<400> 422

Met Leu Gly Thr Ser Leu Ile Tyr Trp Thr Leu Phe Thr Leu Gly Leu  
1 5 10 15  
Asp Leu Ser Trp Ser Ile Ser Leu Ala Phe Lys Trp Cys Glu Arg Pro  
20 25 30  
Glu Trp Ile His Val Asp Ser Arg Pro Phe Ala Ser Leu Ser Arg Asp  
35 40 45  
Ser Gly Ala Ala Leu Gly Leu Gly Ile Ab Leu His Ser Pro Cys Tyr  
50 55 60

Ala Gln Val Arg Arg Ala Gln Leu Gly Asn Gly Gln Lys Ile Ala Cys  
65 70 75 80

Leu Val Leu Ala Met Gly Leu Leu Gly Pro Leu As Trp Leu Gly His  
85 90 95

Pro Pro Gln Ile Ser Leu Phe Tyr Ile Phe Asn Phe Leu Lys Tyr Thr  
100 105 110

Leu Trp Pro Cys Leu Val Leu Ala Leu Val Pro Trp Ala Val His Met  
115 120 125

Phe Ser Ala Gln Glu Ala Pro Pro Ile His Ser Ser  
130 135 140

<210> 423  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 423  
Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala  
1 5 10 15

Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Thr Thr  
20 25 30

Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser  
35 40 45

Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys  
50 55 60

<210> 424  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 424  
Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met Leu Lys  
1 5 10 15

Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser Phe Ile Ser Phe  
20 25 30

Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met Met Ser Ser Phe  
35 40 45

Met

<210> 425  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 425  
 Met Asn Ser Thr Leu Cys Val Val Leu Ser Leu Met Cys Met Asn Ser  
   1                  5                  10                  15  
 Thr Leu Cys Val Val Leu Ser Leu Thr His Ser Cys Pro Ser Pro Gln  
           20                  25                  30  
 Val Pro Lys Val His Tyr Met Ile Phe Met Pro Leu His Leu His Ser  
           35                  40                  45  
 Leu Ala Leu Thr Gln Leu Ile Ile Ile Tyr Lys  
   50                  55

<210> 426  
 <211> 240  
 <212> PRT  
 <213> Homo sapiens

<400> 426  
 Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His  
   1                  5                  10                  15  
 His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu  
           20                  25                  30  
 Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu  
           35                  40                  45  
 Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe Leu Arg Ser Phe  
           50                  55                  60  
 Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly ThrVal Thr Gly Lys Trp  
   65                  70                  75                  80  
 Arg Gly Ser His Val Val Gly Leu Leu Thr Thr Leu Asn Phe Gly Asp  
                   85                  90                  95  
 Gly Pro Asp Arg Asn Lys Thr Arg Thr PheGln Ala Thr Val Leu Gly  
           100                  105                  110  
 Ser Gln Met Gly Leu Lys Gly Ser Ser Ala Gly Gln Leu Val Leu Ile  
   115                  120                  125  
 Thr Ala Arg Val Thr Thr Glu Arg Thr Ala Gly Thr CysLeu Tyr Phe  
   130                  135                  140

Ser Ala Val Pro Gly Ile Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys  
 145 150 155 160  
 Ser Glu Glu Gly Ala Gly Asn Ala Thr Leu Ser Pro Arg Met GlyGlu  
 165 170 175  
 Glu Cys Val Ser Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu  
 180 185 190  
 Leu Thr Ser Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu  
 195 200 205  
 Gly Ser Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala  
 210 215 220  
 Met Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu  
 225 230 235 240

<210> 427  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<400> 427  
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
 1 5 10 15  
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
 20 25 30  
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
 35 40 45  
 Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
 50 55 60  
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly  
 65 70 75 80  
 Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys  
 85 90 95  
 Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser  
 100 105 110  
 Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly  
 115 120 125  
 Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys  
 130 135 140  
 Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile ThrGly Ile Ile Ile



Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly  
 130 135 140

Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu  
 145 150 155 160

His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu Ile  
 165 170

<210> 430  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 430  
 Met Pro Phe Ser Ser Ser Val Lys Cys Leu Phe Gly Val Leu Leu Arg  
 1 5 10 15

Phe Cys Phe Val Val Phe Ser Val Val Val Phe Thr Phe Phe Leu Ser  
 20 25 30

Ile Pro Lys Arg Thr Leu Gly Tyr  
 35 40

<210> 431  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 431  
 Met Glu Met Leu Ser Ser Lys Trp Ser Lys Arg Val Ala Ala Ser Leu  
 1 5 10 15

Ala His Leu Ile Ser Leu Phe Ile Gly Leu Leu Phe Leu Leu Leu Gly  
 20 25 30

Ser Ser Val Tyr Pro Gly Thr Glu Thr Leu Phe Pro Lys Ser  
 35 40 45

<210> 432  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 432  
 Met Tyr Leu Phe Leu Lys Thr Leu Leu Ser Phe Ser Thr Leu Met Met  
 1 5 10 15

Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu Leu  
 20 25 30

Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe Ala  
 35 40 45

Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe  
 50 55 60

<210> 433  
 <211> 319  
 <212> PRT  
 <213> Homo sapiens

<400> 433  
 Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr  
 1 5 10 15

Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly  
 20 25 30

Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly  
 35 40 45

Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe  
 50 55 60

Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu  
 65 70 75 80

Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys Met Glu  
 85 90 95

Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala Gln Gly  
 100 105 110

Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr Glu Ala  
 115 120 125

Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala Ser Ser  
 130 135 140

Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser Ala Ser  
 145 150 155 160

Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe Leu Glu  
 165 170 175

Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro Ala Glu  
 180 185 190

Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly Pro Arg  
 195 200 205

Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val Lys Leu  
 210 215 220

Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met

225		230		235		240									
Val	Glu	Lys	Cys	Leu	Asp	Lys	Tyr	Phe	Gln	His	Leu	Cys	Asp	Asp	Leu
				245					250					255	
Glu	Val	Phe	Ala	Ala	His	Ala	Gly	Arg	Lys	Thr	Val	Lys	Pro	Glu	Asp
			260					265					270		
Leu	Glu	Leu	Leu	Met	Arg	Arg	Gln	Gly	Leu	Val	Thr	Asp	Gln	Val	Ser
		275					280					285			
Leu	His	Val	Leu	Val	Glu	Arg	His	Leu	Pro	Leu	Glu	Tyr	Arg	Gln	Leu
	290					295					300				
Leu	Ile	Pro	Cys	Ala	Tyr	Ser	Gly	Asn	Ser	Val	Phe	Pro	Ala	Gln	
305					310				315						

<210> 434  
 <211> 336  
 <212> PRT  
 <213> Homo sapiens

<400> 434

Met	Ile	Ser	Tyr	Ile	Val	Leu	Leu	Ser	Ile	Leu	Leu	Trp	Pro	Leu	Val
1				5					10					15	
Val	Tyr	His	Glu	Leu	Ile	Gln	Arg	Met	Tyr	Thr	Arg	Leu	Glu	Pro	Leu
			20					25					30		
Leu	Met	Gln	Leu	Asp	Tyr	Ser	Met	Lys	Ala	Glu	Ala	Asn	Ala	Leu	His
		35					40					45			
His	Lys	His	Asp	Lys	Arg	Lys	Arg	Gln	Gly	Lys	Asn	Ala	Pro	Pro	Gly
	50					55					60				
Gly	Asp	Glu	Pro	Leu	Ala	Glu	Thr	Glu	Ser	Glu	Ser	Glu	Ala	Glu	Leu
	65				70					75					80
Ala	Gly	Phe	Ser	Pro	Val	Val	Asp	Val	Lys	Lys	Thr	Ala	Leu	Ala	Leu
				85					90					95	
Ala	Ile	Thr	Asp	Ser	Glu	Leu	Ser	Asp	Glu	Glu	Ala	Ser	Ile	Leu	Glu
			100					105					110		
Ser	Gly	Gly	Phe	Ser	Val	Ser	Arg	Ala	Thr	Thr	Pro	Gln	Leu	Thr	Asp
		115					120					125			
Val	Ser	Glu	Asp	Leu	Asp	Gln	Gln	Ser	Leu	Pro	Ser	Glu	Pro	Glu	Glu
	130					135					140				
Thr	Leu	Ser	Arg	Asp	Leu	Gly	Glu	Gly	Glu	Glu	Gly	Glu	Leu	Ala	Pro
145					150					155					160
Pro	Glu	Asp	Leu	Leu	Gly	Arg	Pro	Gln	Ala	Leu	Ser	Arg	Gln	Ala	Leu
				165					170					175	

Asp Ser Glu Glu Glu Glu Glu Asp Val Ala Ala Lys Glu Thr Leu Leu  
 180 185 190  
 Arg Leu Ser Ser Pro Leu His Phe Val Asn Thr His Phe Asn Gly Ala  
 195 200 205  
 Gly Ser Pro Gln Asp Gly Val Lys Cys Ser Pro Gly Gly Pro Val Glu  
 210 215 220  
 Thr Leu Ser Pro Glu Thr Val Ser Gly Gly Leu Thr Ala Leu Pro Gly  
 225 230 235 240  
 Thr Leu Ser Pro Pro Leu Cys Leu Val Gly Ser Asp Pro Ala Pro Ser  
 245 250 255  
 Pro Ser Ile Leu Pro Pro Val Pro Gln Asp Ser Pro Gln Pro Leu Pro  
 260 265 270  
 Ala Pro Glu Glu Glu Glu Ala Leu Thr Thr Glu Asp Phe Glu Leu Leu  
 275 280 285  
 Asp Gln Gly Glu Leu Glu Gln Leu Asn Ala Glu Leu Gly Leu Glu Pro  
 290 295 300  
 Glu Thr Pro Pro Lys Pro Pro Asp Ala Pro Pro Leu Gly Pro Asp Ile  
 305 310 315 320  
 His Ser Leu Val Gln Ser Asp Gln Glu Ala Gln Ala Val Ala Glu Pro  
 325 330 335

<210> 435  
 <211> 272  
 <212> PRT  
 <213> Homo sapiens

<400> 435  
 Met Trp Gly Asn Lys Phe Gly Val Leu Leu Phe Leu Tyr Ser Val Leu  
 1 5 10 15  
 Leu Thr Lys Gly Ile Glu Asn Ile Lys Asn Glu Ile Glu Asp Ala Ser  
 20 25 30  
 Glu Pro Leu Ile Asp Pro Val Tyr Gly His Gly Ser Gln Ser Leu Ile  
 35 40 45  
 Asn Leu Leu Leu Thr Gly His Ala Val Ser Asn Val Trp Asp Gly Asp  
 50 55 60  
 Arg Glu Cys Ser Gly Met Lys Leu Leu Gly Ile His Glu Gln Ala Ala  
 65 70 75 80

Val Gly Phe Leu Thr Leu Met Glu Ala Leu Arg Tyr Cys Lys Val Gly  
                                   85                                  90                                  95  
 Ser Tyr Leu Lys Ser Pro Lys Phe Pro Ile Trp Ile Val Gly Ser Glu  
                                   100                                  105                                  110  
 Thr His Leu Thr Val Phe Phe Ala Lys Asp Met Ala Leu Val Ala Pro  
                                   115                                  120                                  125  
 Glu Ala Pro Ser Glu Gln Ala Arg Arg Val Phe Gln Thr Tyr Asp Pro  
                                   130                                  135                                  140  
 Glu Asp Asn Gly Phe Ile Pro Asp Ser Leu Leu Glu Asp Val Met Lys  
                                   145                                  150                                  155                                  160  
 Ala Leu Asp Leu Val Ser Asp Pro Glu Tyr Ile Asn Leu Met Lys Asn  
                                   165                                  170                                  175  
 Lys Leu Asp Pro Glu Gly Leu Gly Ile Ile Leu Leu Gly Pro Phe Leu  
                                   180                                  185                                  190  
 Gln Glu Phe Phe Pro Asp Gln Gly Ser Ser Gly Pro Glu Ser Phe Thr  
                                   195                                  200                                  205  
 Val Tyr His Tyr Asn Gly Leu Lys Gln Ser Asn Tyr Asn Glu Lys Val  
                                   210                                  215                                  220  
 Met Tyr Val Glu Gly Thr Ala Val Val Met Gly Phe Gln Asp Pro Met  
                                   225                                  230                                  235                                  240  
 Leu Gln Thr Asp Asp Thr Pro Ile Lys Arg Cys Leu Gln Thr Lys Trp  
                                   245                                  250                                  255  
 Pro Tyr Ile Glu Leu Leu Trp Thr Thr Asp Arg Ser Pro Ser Leu Asn  
                                   260                                  265                                  270

<210> 436  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 436  
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
   1                                  5                                  10                                  15  
 Leu Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr  
                                   20                                  25                                  30  
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
                                   35                                  40                                  45  
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly



<212> PRT  
<213> Homo sapiens

<400> 439

Met Leu Arg Gly Trp Ala Leu Ser Thr Phe Leu Val Cys Ile Leu Gln  
1 5 10 15  
Trp Val Arg Ser Leu Thr Ile Arg Leu Ala Ser Ala Leu Ser Val Arg  
20 25 30  
Gly Pro Ser Ser Ile Pro Ala Ser Leu Ala Ile Ile Tyr Thr Leu Phe  
35 40 45  
Ile Phe Ser Phe Lys Phe Leu Lys Ile Val Lys Ser Ile Tyr Ile  
50 55 60

<210> 440  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 440

Met Leu His Leu Ala Ala Met Trp Trp Ala Cys Val Thr Thr Leu Val  
1 5 10 15  
Phe Thr Leu Val Ser Lys Leu Phe Ile Pro Leu Lys Ser Ser Met Asp  
20 25 30  
Gly Glu Met Ser Leu Asp Pro His Ser Cys Val Leu Val Cys Ile Cys  
35 40 45  
Phe Pro Leu Arg Phe Val Phe Val Ser Cys Phe Glu Leu Tyr Leu Val  
50 55 60  
Gln Ser Ile Val Lys Leu Ser Gln Gln Leu  
65 70

<210> 441  
<211> 127  
<212> PRT  
<213> Homo sapiens

<400> 441

Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val  
1 5 10 15  
Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp  
20 25 30  
Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly  
35 40 45  
Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys

50		55		60
Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly				
65		70		75
Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu				
	85		90	95
Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser				
	100		105	110
Trp Pro Arg Gly Lys Arg Trp Leu Leu Gln Glu Phe Asp Leu Ser				
	115		120	125

<210> 442  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 442  
 Met Ser Ala Leu Ser Phe Thr Ser Tyr Phe Leu Leu Leu Leu Arg Val  
 1 5 10 15  
 Lys Pro Val Glu Val Ser Gly Ser Ile Pro His Pro Gln Gln Pro Asn  
 20 25 30  
 Val Leu Cys Leu Val Leu Pro Thr Phe Gly Tyr  
 35 40

<210> 443  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 443  
 Leu Gln  
 1

<210> 444  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 444  
 Met Met Pro Leu Lys Leu His Ala Lys Cys Leu Tyr Leu Leu Lys Cys  
 1 5 10 15  
 Val Phe Phe Val Gly Val Gly Gly Met Thr Phe Tyr Gln Ile Leu Thr  
 20 25 30  
 Gly Phe Lys Ile Gln Lys Ser Leu Asp Leu Val Gly

35

40

<210> 445  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 445  
 Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys Phe Cys Ile  
 1 5 10 15  
 Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu  
 20 25 30  
 Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His Ala  
 35 40 45

<210> 446  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 446  
 Met Gly Met Ile Leu Val Leu Ala Ser Phe Leu Ala His Pro Val Glu  
 1 5 10 15  
 Ala Leu Ala Gln Ala Val Ala Leu Gly Gln Gln Gln Leu Ala Leu Leu  
 20 25 30  
 Gly Val Gln Xaa His Ala Val Glu Gly Phe Leu Gln Leu Gln Xaa Cys  
 35 40 45  
 Phe Ala Xaa Leu Phe Val Phe Glu Gly Ala Leu Leu Ala His Leu Gly

50                                      55                                      60  
 His Phe Phe Val Glu Pro Gly Ala Ala Gln Gly Gln Leu Leu Asp Leu  
 65                                      70                                      75                                      80  
 Gly Leu Xaa Arg Arg Glu Leu Gly Phe Gln Phe Ala Leu Leu Ala Arg  
 85                                      90                                      95  
 Phe Val Leu Gln  
 100

<210> 447  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 447  
 Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile  
 1                                      5                                      10                                      15  
 Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu  
 20                                      25                                      30  
 Lys Thr Val Thr His Ile Glu Gln  
 35                                      40

<210> 448  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 448  
 Met Gln Lys Lys Lys Leu Val Cys Tyr Leu Met Leu Arg Gln Tyr Phe  
 1                                      5                                      10                                      15  
 Phe Leu Val Val Val Ser Leu Pro Trp Pro Cys Val Leu Phe Gln Met  
 20                                      25                                      30  
 His Tyr Pro Arg Thr Val Thr Pro Thr Leu Thr Glu Tyr  
 35                                      40                                      45

<210> 449  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 449  
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly  
 1                                      5                                      10                                      15  
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys

	20		25		30										
Gln	Arg	Arg	Pro	Met	Gly	Phe	Pro	Pro	Gly	Pro	Pro	Gly	Leu	Pro	Phe
			35				40					45			
Ile	Gly	Asn	Ile	Tyr	Ser	Leu	Ala	Ala	Ser	Ser	Glu	Leu	Pro	His	Val
	50					55					60				
Tyr	Met	Arg	Lys	Gln	Ser	Gln	Val	Tyr	Gly	Glu	Val	Gln	Pro	Arg	Arg
65					70					75					80
Ala	Pro	Gly	Arg	Glu	Gly	Arg	Gln	Ala	Gly	Pro	Gly	Trp	Pro	Gly	Pro
				85					90					95	
Ser	Trp	Leu	Asp	Leu	Trp	Pro	Pro	Leu	Gly	Arg	Leu	Val	Gly	Thr	Ser
			100					105					110		
Pro	Cys	Ala	Gly	Cys	Pro	Leu	Arg	Asp	Thr	Arg	Phe	Pro	Gly	Leu	Glu
		115					120					125			
Gly	Arg	Ser	Pro	Arg	Arg	Arg	Ala	Pro	Leu	Gln	Gly	Glu	Pro	Arg	Pro
	130					135					140				
Cys	Arg														
145															

<210> 450  
 <211> 941  
 <212> PRT  
 <213> Homo sapiens

<400> 450															
Met	Val	Phe	Leu	Pro	Leu	Lys	Trp	Ser	Leu	Ala	Thr	Met	Ser	Phe	Leu
1				5					10					15	
Leu	Ser	Ser	Leu	Leu	Ala	Leu	Leu	Thr	Val	Ser	Thr	Pro	Ser	Trp	Cys
			20					25					30		
Gln	Ser	Thr	Glu	Ala	Ser	Pro	Lys	Arg	Ser	Asp	Gly	Thr	Pro	Phe	Pro
		35					40					45			
Trp	Asn	Lys	Ile	Arg	Leu	Pro	Glu	Tyr	Val	Ile	Pro	Val	His	Tyr	Asp
50					55						60				
Leu	Leu	Ile	His	Ala	Asn	Leu	Thr	Thr	Leu	Thr	Phe	Trp	Gly	Thr	Thr
65					70					75					80
Lys	Val	Glu	Ile	Thr	Ala	Ser	Gln	Pro	Thr	Ser	Thr	Ile	Ile	Leu	His
				85					90					95	
Ser	His	His	Leu	Gln	Ile	Ser	Arg	Ala	Thr	Leu	Arg	Lys	Gly	Ala	Gly
			100					105					110		
Glu	Arg	Leu	Ser	Glu	Glu	Pro	Leu	Gln	Val	Leu	Glu	His	Pro	Pro	Gln
		115					120					125			

Glu	Gln	Ile	Ala	Leu	Leu	Ala	Pro	Glu	Pro	Leu	Leu	Val	Gly	Leu	Pro	130	135	140
Tyr	Thr	Val	Val	Ile	His	Tyr	Ala	Gly	Asn	Leu	Ser	Glu	Thr	Phe	His	145	150	155
Gly	Phe	Tyr	Lys	Ser	Thr	Tyr	Arg	Thr	Lys	Glu	Gly	Glu	Leu	Arg	Ile	165	170	175
Leu	Ala	Ser	Thr	Gln	Phe	Glu	Pro	Thr	Ala	Ala	Arg	Met	Ala	Phe	Pro	180	185	190
Cys	Phe	Asp	Glu	Pro	Ala	Phe	Lys	Ala	Ser	Phe	Ser	Ile	Lys	Ile	Arg	195	200	205
Arg	Glu	Pro	Arg	His	Leu	Ala	Ile	Ser	Asn	Met	Pro	Leu	Val	Lys	Ser	210	215	220
Val	Thr	Val	Ala	Glu	Gly	Leu	Ile	Glu	Asp	His	Phe	Asp	Val	Thr	Val	225	230	235
Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Ile	Ser	Asp	Phe	Glu	Ser	245	250	255
Val	Ser	Lys	Ile	Thr	Lys	Ser	Gly	Val	Lys	Val	Ser	Val	Tyr	Ala	Val	260	265	270
Pro	Asp	Lys	Met	Asn	Gln	Ala	Asp	Tyr	Ala	Leu	Asp	Ala	Ala	Val	Thr	275	280	285
Leu	Leu	Glu	Phe	Tyr	Glu	Asp	Tyr	Phe	Ser	Ile	Pro	Tyr	Pro	Leu	Pro	290	295	300
Lys	Gln	Asp	Leu	Ala	Ala	Ile	Pro	Asp	Phe	Gln	Ser	Gly	Ala	Met	Glu	305	310	315
Asn	Trp	Gly	Leu	Thr	Thr	Tyr	Arg	Glu	Ser	Ala	Leu	Leu	Phe	Asp	Ala	325	330	335
Glu	Lys	Ser	Ser	Ala	Ser	Ser	Lys	Leu	Gly	Ile	Thr	Met	Thr	Val	Ala	340	345	350
His	Glu	Leu	Ala	His	Gln	Trp	Phe	Gly	Asn	Leu	Val	Thr	Met	Glu	Trp	355	360	365
Trp	Asn	Asp	Leu	Trp	Leu	Asn	Glu	Gly	Phe	Ala	Lys	Phe	Met	Glu	Phe	370	375	380
Val	Ser	Val	Ser	Val	Thr	His	Pro	Glu	Leu	Lys	Val	Gly	Asp	Tyr	Phe	385	390	395
Phe	Gly	Lys	Cys	Phe	Asp	Ala	Met	Glu	Val	Asp	Ala	Leu	Asn	Ser	Ser	405	410	415
His	Pro	Val	Ser	Thr	Pro	Val	Glu	Asn	Pro	Ala	Gln	Ile	Arg	Glu	Met	420	425	430

Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu  
435 440 445  
Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile ValGln Tyr  
450 455 460  
Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp  
465 470 475 480  
Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly  
485 490 495  
Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His Trp His Gln  
500 505 510  
Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg  
515 520 525  
Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met  
530 535 540  
Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly  
545 550 555 560  
Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met  
565 570 575  
Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro  
580 585 590  
Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr  
595 600 605  
Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu  
610 615 620  
Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile  
625 630 635 640  
Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys  
645 650 655  
Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro  
660 665 670  
Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu  
675 680 685  
Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala Phe Leu Ile  
690 695 700  
Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly  
705 710 715 720  
Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu Leu Ala Cys  
725 730 735

Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg  
 740 745 750  
 Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val Asp Val Thr  
 755 760 765  
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe  
 770 775 780  
 Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln  
 785 790 795 800  
 Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn Lys Glu Lys Leu Gln Trp  
 805 810 815  
 Leu Leu Asp Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe  
 820 825 830  
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu  
 835 840 845  
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe  
 850 855 860  
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn  
 865 870 875 880  
 Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser  
 885 890 895  
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile  
 900 905 910  
 Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys  
 915 920 925  
 Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met  
 930 935 940

<210> 451  
 <211> 316  
 <212> PRT  
 <213> Homo sapiens

<400> 451  
 Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu  
 1 5 10 15  
 Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro  
 20 25 30  
 Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys  
 35 40 45

Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser  
 50 55 60  
 Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Tyr Asp Asn Gly Phe  
 65 70 75 80  
 Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asp Gln  
 85 90 95  
 Lys Val Arg Arg Val He Val Arg Lys Val Tyr Thr Ile Leu Leu Ile  
 100 105 110  
 Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asp  
 115 120 125  
 Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser  
 130 135 140  
 Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly  
 145 150 155 160  
 Pro Arg Arg His Phe Pro Trp Asn Leu Ile Bu Leu Thr Val Phe Thr  
 165 170 175  
 Leu Ser Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr  
 180 185 190  
 Thr Ser Val Leu Leu Cys Leu Gly Ile Thr Ala Bu Val Cys Leu Ser  
 195 200 205  
 Val Thr Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln  
 210 215 220  
 Gly Val Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile  
 225 230 235 240  
 Leu Ala Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val  
 245 250 255  
 Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Sp  
 260 265 270  
 Thr Gln Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu  
 275 280 285  
 Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe  
 290 295 300  
 Thr Phe Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu  
 305 310 315

<210> 452  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 452

Met Ser His Ser Val Phe Ala His Tyr Ile Phe Asn Ile Leu Leu Leu  
1 5 10 15  
Leu Leu Leu Leu Leu Leu Ile Gly Phe Leu Tyr Ser Met Pro Phe Ile  
20 25 30  
Tyr Lys Asp Thr Lys Lys Thr His Val Cys Asn Phe Asn Asn Ile Phe  
35 40 45  
Pro Ile Leu  
50

<210> 453

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring amino acids

<400> 453

Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly  
1 5 10 15  
Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe  
20 25 30  
Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala  
35 40 45  
Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp  
50 55 60  
Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile  
65 70 75 80  
Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr  
85 90 95  
Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val  
100 105 110  
Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile  
115 120 125  
Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser

130                                      135                                      140  
 Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys  
 145                                      150                                      155                                      160  
 Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr  
                                     165                                      170                                      175  
 Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro  
                                     180                                      185                                      190  
 Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp  
                                     195                                      200                                      205  
 Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr  
                                     210                                      215                                      220  
 Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala  
 225                                      230                                      235                                      240  
 His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu  
                                     245                                      250                                      255  
 Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe  
                                     260                                      265

<210> 454  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 454  
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys ValHis  
   1                                    5                                    10                                    15  
 Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser  
                                     20                                    25                                    30  
 His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp  
                                     35                                    40                                    45  
 Thr Phe Asn His Asp  
                                     50

<210> 455  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 455  
 Met Gly Leu His Leu Arg Pro Tyr Arg Val Gly Leu Leu Pro Asp Gly  
   1                                    5                                    10                                    15

Leu Leu Phe Leu Leu Leu Leu Leu Met Leu Leu Ala Asp Pro Ala Leu  
                   20                  25                  30  
 Pro Ala Gly Arg His Pro Pro Val Val Leu Val Pro Gly Asp Leu Gly  
                   35                  40                  45  
 Asn Gln Leu Glu Ala Lys Leu Asp Lys Pro Thr Val Val His Tyr Leu  
           50                  55                  60  
 Cys Ser Lys Lys Thr Glu Ser Tyr Phe Thr Ile Trp Leu Asn Leu Glu  
       65                  70                  75                  80  
 Leu Leu Leu Pro Val His His  
                   85

<210> 456  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 456  
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu  
       1                  5                  10                  15  
 Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn  
                   20                  25                  30  
 Phe Gly Phe Lys Trp Leu Lys Asp  
       35                  40

<210> 457  
 <211> 525  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (210)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 457  
 Met Leu Ala Phe Pro Leu Leu Leu Thr Gly Leu Ile Ser Phe Arg Glu  
       1                  5                  10                  15  
 Lys Arg Leu Gln Asp Val Gly Thr Pro Ala Ala Arg Ala Arg Ala Phe  
                   20                  25                  30  
 Phe Thr Ala Pro Val Val Val Phe His Leu Asn Ile Leu Ser Tyr Phe  
           35                  40                  45  
 Ala Phe Leu Cys Leu Phe Ala Tyr Val Leu Met Val Asp Phe Gln Pro  
       50                  55                  60

Val Pro Ser Trp Cys Glu Cys Ala Ile Tyr Leu Trp Leu Phe Ser Leu  
65 70 75 80  
Val Cys Glu Glu Met Arg Gln Leu Phe Tyr Asp Pro Asp Glu Cys Gly  
85 90 95  
Leu Met Lys Lys Ala Ala Leu Tyr Phe Ser Asp Phe Trp Asn Lys Leu  
100 105 110  
Asp Val Gly Ala Ile Leu Leu Phe Val Ala Gly Leu Thr Cys Arg Leu  
115 120 125  
Ile Pro Ala Thr Leu Tyr Pro Gly Arg Val Ile Leu Ser Leu Asp Phe  
130 135 140  
Ile Leu Phe Cys Leu Arg Leu Met His Ile Phe Thr Ile Ser Lys Thr  
145 150 155 160  
Leu Gly Pro Lys Ile Ile Ile Val Lys Arg Met Met Lys Asp Val Phe  
165 170 175  
Phe Phe Leu Phe Leu Leu Ala Val Trp Val Val Ser Phe Gly Val Ala  
180 185 190  
Lys Gln Ala Ile Leu Ile His Asn Glu Arg Arg Val Asp Trp Leu Phe  
195 200 205  
Arg Xaa Ala Val Tyr His Ser Tyr Leu Thr Ile Phe Gly Gln Ile Pro  
210 215 220  
Gly Tyr Ile Asp Gly Val Asn Phe Asn Pro Glu His Cys Ser Pro Asn  
225 230 235 240  
Gly Thr Asp Pro Tyr Lys Pro Lys Cys Pro Glu Ser Asp Ala Thr Gln  
245 250 255  
Gln Arg Pro Ala Phe Pro Glu Trp Leu Thr Val Leu Leu Leu Cys Leu  
260 265 270  
Tyr Leu Leu Phe Thr Asn Ile Leu Leu Leu Asn Leu Leu Ile Ala Met  
275 280 285  
Phe Asn Tyr Thr Phe Gln Gln Val Gln Glu His Thr Asp Gln Ile Trp  
290 295 300  
Lys Phe Gln Arg His Asp Leu Ile Glu Glu Tyr His Gly Arg Pro Ala  
305 310 315 320  
Ala Pro Pro Pro Phe Ile Leu Leu Ser His Leu Gln Leu Phe Ile Lys  
325 330 335  
Arg Val Val Leu Lys Thr Pro Ala Lys Arg His Lys Gln Leu Lys Asn  
340 345 350  
Lys Leu Glu Lys Asn Glu Glu Ala Ala Leu Leu Ser Trp Glu Ile Tyr  
355 360 365

Leu Lys Glu Asn Tyr Leu Gln Asn Arg Gln Phe Gln Gln Lys Gln Arg  
 370 375 380  
 Pro Glu Gln Lys Ile Glu Asp Ile Ser Asn Lys Val Asp Ala Met Val  
 385 390 395 400  
 Asp Leu Leu Asp Leu Asp Pro Leu Lys Arg Ser Gly Ser Met Glu Gln  
 405 410 415  
 Arg Leu Ala Ser Leu Glu Glu Gln Val Ala Gln Thr Ala Arg Ala Leu  
 420 425 430  
 His Trp Ile Val Arg Thr Leu Arg Ala Ser Gly Phe Ser Ser Glu Ala  
 435 440 445  
 Asp Val Pro Thr Leu Ala Ser Gln Lys Ala Ala Glu Glu Pro Asp Ala  
 450 455 460  
 Glu Pro Gly Gly Arg Lys Lys Thr Glu Glu Pro Gly Asp Ser Tyr His  
 465 470 475 480  
 Val Asn Ala Arg His Leu Leu Tyr Pro Asn Cys Pro Val Thr Arg Phe  
 485 490 495  
 Pro Val Pro Asn Glu Lys Val Pro Trp Glu Thr Glu Phe Leu Ile Tyr  
 500 505 510  
 Asp Pro Pro Phe Tyr Thr Ala Glu Arg Lys Asp Ala Ala  
 515 520 525

<210> 458  
 <211> 484  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (322)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (345)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (374)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 458  
 Met Val Ala Thr Val Cys Gly Leu Leu Val Phe Leu Ser Leu Gly Leu  
 1 5 10 15

Val Pro Pro Val Arg Cys Leu Phe Ala Leu Ser Val Pro Thr Leu Gly

20					25					30					
Met	Glu	Gln	Gly	Arg	Arg	Leu	Leu	Leu	Ser	Tyr	Ser	Thr	Ala	Thr	Leu
		35				40						45			
Ala	Ile	Ala	Val	Val	Pro	Asn	Val	Leu	Ala	Asn	Val	Gly	Ala	Ala	Gly
	50					55					60				
Gln	Val	Leu	Arg	Cys	Val	Thr	Glu	Gly	Ser	Leu	Glu	Ser	Leu	Leu	Asn
	65					70					75				80
Thr	Thr	His	Gln	Leu	His	Ala	Ala	Ser	Arg	Ala	Leu	Gly	Pro	Thr	Gly
				85					90					95	
Gln	Ala	Gly	Ser	Arg	Gly	Leu	Thr	Phe	Glu	Ala	Gln	Asp	Asn	Gly	Ser
			100					105					110		
Ala	Phe	Tyr	Leu	His	Met	Leu	Thr	Val	Thr	Gln	Gln	Val	Leu	Glu	Asp
		115					120					125			
Phe	Ser	Gly	Leu	Glu	Ser	Leu	Ala	Arg	Ala	Ala	Ala	Leu	Gly	Thr	Gln
		130				135					140				
Arg	Val	Val	Thr	Gly	Leu	Phe	Met	Leu	Gly	Leu	Leu	Val	Glu	Ser	Ala
	145					150					155				160
Trp	Tyr	Leu	His	Cys	Tyr	Leu	Thr	Asp	Leu	Arg	Phe	Asp	Asn	Ile	Tyr
				165				170						175	
Ala	Thr	Gln	Gln	Leu	Thr	Gln	Arg	Leu	Ala	Gln	Ala	Gln	Ala	Thr	His
			180					185					190		
Leu	Leu	Ala	Pro	Pro	Pro	Thr	Trp	Leu	Leu	Gln	Ala	Ala	Gln	Leu	Arg
		195					200					205			
Leu	Ser	Gln	Glu	Glu	Leu	Leu	Ser	Cys	Leu	Leu	Arg	Leu	Gly	Leu	Leu
	210					215					220				
Ala	Leu	Leu	Leu	Val	Ala	Thr	Ala	Val	Ala	Val	Ala	Thr	Asp	His	Val
	225					230					235			240	
Ala	Phe	Leu	Leu	Ala	Gln	Ala	Thr	Val	Asp	Trp	Ala	Gln	Lys	Leu	Pro
				245					250					255	
Thr	Val	Pro	Ile	Thr	Leu	Thr	Val	Lys	Tyr	Asp	Val	Ala	Tyr	Thr	Val
			260					265					270		
Leu	Gly	Phe	Ile	Pro	Phe	Leu	Phe	Asn	Gln	Leu	Ala	Pro	Glu	Ser	Pro
		275					280					285			
Phe	Leu	Ser	Val	His	Ser	Ser	Tyr	Gln	Trp	Glu	Leu	Arg	Leu	Thr	Ser
	290					295					300				
Ala	Arg	Cys	Pro	Leu	Leu	Pro	Ala	Arg	Arg	Pro	Arg	Ala	Ala	Ala	Pro
	305					310					315				320
Leu	Xaa	Ala	Gly	Gly	Leu	Gln	Leu	Leu	Ala	Gly	Ser	Thr	Val	Leu	Leu



Ile Ser Ala Pro Met Ser Pro Val Phe Gly Leu Leu Val Asp Lys Thr  
100 105 110  
Gly Lys Asn Ile Ile Trp Val Leu Cys Ala  
115 120

<210> 460  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 460  
Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
1 5 10 15  
Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
20 25 30  
Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
35 40 45

<210> 461  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 461  
Met Ser Trp Val Ile Val Val Ile Ile Trp Gly Tyr Leu Leu Glu Gly  
1 5 10 15  
His Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Ser Pro Trp Lys Leu  
20 25 30  
His Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg  
35 40 45  
Ile Leu Glu Thr Leu Met Ser Gly Ser Thr His Cys Ser Phe Ser Gly  
50 55 60  
Thr Phe  
65

<210> 462  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 462  
Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu  
1 5 10 15

Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr  
                   20                  25                  30  
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg  
                   35                  40                  45  
 Ser Ser His Ser Pro Arg Thr Trp Arg Thr Pro Ser Ser Gln Thr Lys  
                   50                  55                  60  
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys  
                   65                  70                  75                  80  
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met  
                   85                  90

<210> 463  
 <211> 710  
 <212> PRT  
 <213> Homo sapiens

<400> 463  
 Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro  
   1                  5                  10                  15  
 Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His  
                   20                  25                  30  
 Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys  
                   35                  40                  45  
 Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr  
                   50                  55                  60  
 His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys  
                   65                  70                  75                  80  
 Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His Trp  
                   85                  90                  95  
 Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly  
                   100                  105                  110  
 Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser  
                   115                  120                  125  
 Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val  
                   130                  135                  140  
 Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr  
                   145                  150                  155                  160  
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr  
                   165                  170                  175

Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro  
 180 185 190  
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala  
 195 200 205  
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Phe Gly  
 210 215 220  
 Leu Ser Leu Tyr Trp Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp  
 225 230 235 240  
 His Lys Asn Leu Thr Gly Pro Gln Ile Ile Thr Leu Asn His Thr Asp  
 245 250 255  
 Leu Val Pro Cys Leu Cys Ile Gln Val Trp Pro Leu Glu Pro Asp Ser  
 260 265 270  
 Val Arg Thr Asn Ile Cys Pro Phe Arg Gu Asp Pro Arg Ala His Gln  
 275 280 285  
 Asn Leu Trp Gln Ala Ala Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp  
 290 295 300  
 Leu Leu Asp Ala Pro Cys Ser Leu Pro Ala Glu Ala Ala Leu As Trp  
 305 310 315 320  
 Arg Ala Pro Gly Gly Asp Pro Cys Gln Pro Leu Val Pro Pro Leu Ser  
 325 330 335  
 Trp Glu Asn Val Thr Val Asp Lys Val Leu Glu Phe Pro Leu Leu Lys  
 340 345 350  
 Gly His Pro Asn Leu Cys Val Gln Val Asn Ser Ser Glu Lys Leu Gln  
 355 360 365  
 Leu Gln Glu Cys Leu Trp Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp  
 370 375 380  
 Val Leu Leu Leu Glu Thr Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys  
 385 390 395 400  
 Ala Leu Glu Pro Ser Gly Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr  
 405 410 415  
 Arg Ala Ala Arg Leu Gly Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly  
 420 425 430  
 Gln Cys Leu Gln Leu Trp Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys  
 435 440 445  
 Pro Met Asp Lys Tyr Ile His Lys Arg Trp Ala Leu Val Trp Leu Ala  
 450 455 460  
 Cys Leu Leu Phe Ala Ala Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys  
 465 470 475 480



	20		25		30
Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser	35	40	45		

<210> 465  
 <211> 549  
 <212> PRT  
 <213> Homo sapiens

<400> 465
Met Trp Leu Pro Leu Val Leu Leu Leu Ala Val Leu Leu Leu Ala Val
1 5 10 15
Leu Cys Lys Val Tyr Leu Gly Leu Phe Ser Gly Ser Ser Pro Asn Pro
20 25 30
Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val Thr Asp Lys
35 40 45
Glu Ala Arg Lys Lys Val Leu Lys Gln Gly Ile His Tyr Ile Gly Arg
50 55 60
Met Glu Glu Gly Ser Ile Gly Arg Phe Ile Leu Asp Gln Ile Thr Glu
65 70 75 80
Gly Gln Leu Asp Trp Ala Pro Leu Ser Ser Pro Phe Asp Ile Met Val
85 90 95
Leu Glu Gly Pro Asn Gly Arg Lys Glu Tyr Pro Met Tyr Ser Gly Glu
100 105 110
Lys Ala Tyr Ile Gln Gly Leu Lys Glu Lys Phe Pro Gln Glu Glu Ala
115 120 125
Ile Ile Asp Lys Tyr Ile Lys Leu Val Lys Val Val Ser Ser Gly Ala
130 135 140
Pro His Ala Ile Leu Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu
145 150 155 160
Leu Asp Arg Cys Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala
165 170 175
Ser Thr Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser
180 185 190
Glu Leu Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr
195 200 205
Pro Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr
210 215 220

Met Lys Gly Gly Phe Tyr Pro Arg GlyGly Ser Ser Glu Ile Ala Phe  
 225 230 235 240  
 His Thr Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys  
 245 250 255  
 Ala Thr Val Gln Ser Val Leu LeuAsp Ser Ala Gly Lys Ala Cys Gly  
 260 265 270  
 Val Ser Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile  
 275 280 285  
 Val Val Ser Asn Ala Gly Leu Phe Asn Thr TyrGlu His Leu Leu Pro  
 290 295 300  
 Gly Asn Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val  
 305 310 315 320  
 Arg Pro Gly Leu Gly Met Thr Ser Val Phe Ile Cys LeuArg Gly Thr  
 325 330 335  
 Lys Glu Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp  
 340 345 350  
 Thr Asp Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met ProArg Glu  
 355 360 365  
 Glu Ala Ala Glu His Ile Pro Leu Leu Phe Phe Ala Phe Pro Ser Ala  
 370 375 380  
 Lys Asp Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile  
 385 390 395 400  
 Met Leu Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu  
 405 410 415  
 Leu Lys Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe  
 420 425 430  
 Val Glu Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu  
 435 440 445  
 Gly Lys Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe  
 450 455 460  
 Tyr Leu Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu  
 465 470 475 480  
 Gly Arg Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro  
 485 490 495  
 Ile Pro Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu  
 500 505 510  
 Val Gly Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Ala Ile Leu Lys  
 515 520 525

Arg Asn Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala  
 530 535 540

Gln Lys Lys Lys Asn  
 545

<210> 466  
 <211> 467  
 <212> PRT  
 <213> Homo sapiens

<400> 466  
 Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val  
 1 5 10 15  
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser  
 20 25 30  
 Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe  
 35 40 45  
 Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr  
 50 55 60  
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr  
 65 70 75 80  
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His  
 85 90 95  
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp  
 100 105 110  
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly  
 115 120 125  
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr  
 130 135 140  
 Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser  
 145 150 155 160  
 Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln  
 165 170 175  
 Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu  
 180 185 190  
 His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro  
 195 200 205  
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala  
 210 215 220

Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro  
 225 230 235 240  
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr  
 245 250 255  
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu  
 260 265 270  
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp  
 275 280 285  
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu  
 290 295 300  
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys  
 305 310 315 320  
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser  
 325 330 335  
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu  
 340 345 350  
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser  
 355 360 365  
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala  
 370 375 380  
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr  
 385 390 395 400  
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp  
 405 410 415  
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu  
 420 425 430  
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln  
 435 440 445  
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys  
 450 455 460  
 Ile Pro Lys  
 465

<210> 467  
 <211> 325  
 <212> PRT  
 <213> Homo sapiens

<400> 467  
 Met Gly Ser Gln Val Ser Ser Met Leu Lys Leu Ala Leu Gln Asn Cys

1	5	10	15
Cys Pro Gln Leu Trp Gln Arg His Ser Ala Arg Asp Ag Gln Cys Ala	20	25	30
Arg Val Leu Ala Asp Glu Arg Ser Pro Gln Pro Gly Ala Ser Pro Gln	35	40	45
Glu Asp Ile Ala Asn Phe Gln Val Leu Val Lys Ile Leu Pro Val <del>Met</del>	50	55	60
Val Thr Leu Val Pro Tyr Trp Met Val Tyr Phe Gln Met Gln Ser Thr	65	70	75
Tyr Val Leu Gln Gly Leu His Leu His Ile Pro Asn Ile Phe Pro Ala	85	90	95
Asn Pro Ala Asn Ile Ser Val Ala Leu Arg Ala Gln Gly Ser Ser Tyr	100	105	110
Thr Ile Pro Glu Ala Trp Leu Leu Leu Ala Asn Val Val Val Val Leu	115	120	125
Ile Leu Val Pro Leu Lys Asp Arg Leu Ile Asp Pro Leu Leu Leu Arg	130	135	140
Cys Lys Leu Leu Pro Ser Ala Leu Gln Lys Met Ala Leu Gly Met Phe	145	150	155
Phe Gly Phe Thr Ser Val Ile Val Ala Gly Val Leu Glu Met Glu Arg	165	170	175
Leu His Tyr Ile His His Asn Glu Thr Val Ser Gln Gln Ile Gly Glu	180	185	190
Val Leu Tyr Asn Ala Ala Pro Leu Ser Ile Trp Trp Gln Ile Pro Gln	195	200	205
Tyr Leu Leu Ile Gly Ile Ser Glu Ile Phe Ala Ser Ile Pro Gly Leu	210	215	220
Glu Phe Ala Tyr Ser Glu Ala Pro Arg Ser Met Gln Gly Ala Ile Met	225	230	235
Gly Ile Phe Phe Cys Leu Ser Gly Val Gly Ser Leu Leu Gly Ser Ser	245	250	255
Leu Val Ala Leu Leu Ser Leu Pro Gly Gly Trp Leu His Cys Pro Lys	260	265	270
Asp Phe Gly Asn Ile Asn Asn Cys Arg Met Asp Leu Tyr Phe Phe Leu	275	280	285
Leu Ala Gly Ile Gln Ala Val Thr Ala Leu Leu Phe Val Trp Ile Ala	290	295	300
Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro Ala Ser His Ser Arg Phe			

305 310 315 320

Ser Arg Asp Arg Gly  
325

<210> 468  
<211> 98  
<212> PRT  
<213> Homo sapiens

<400> 468  
Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala  
50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
85 90 95

Leu Pro

<210> 469  
<211> 608  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (265)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (597)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 469  
Met Val Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile  
1 5 10 15

Leu His Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser  
20 25 30

Asn Arg Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp  
 35 40 45  
 Ser Ile Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly  
 50 55 60  
 Gly Thr Asp Ile Asn Gly Val Leu Gln Arg Ala Ile Arg Leu Leu Asn  
 65 70 75 80  
 Lys Tyr Val Ala His Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile  
 85 90 95  
 Val Phe Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu  
 100 105 110  
 Lys Ile Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile  
 115 120 125  
 Phe Thr Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys  
 130 135 140  
 Leu Ser Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu  
 145 150 155 160  
 Asp Ala Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro  
 165 170 175  
 Leu Leu Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln  
 180 185 190  
 Ala Thr Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile  
 195 200 205  
 Ile Ala Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu  
 210 215 220  
 Val Thr Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val  
 225 230 235 240  
 Pro Val Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg  
 245 250 255  
 Pro Gly Gly Asp Gly Glu Gly Asp Xaa Asn His Ile Glu Arg Leu Trp  
 260 265 270  
 Ser Tyr Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp  
 275 280 285  
 Asp Glu Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala  
 290 295 300  
 Val Ser Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly  
 305 310 315 320  
 Pro Val Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala  
 325 330 335

Ala Met Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr  
 340 345 350  
 Gln Pro Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile  
 355 360 365  
 Ser Lys Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro  
 370 375 380  
 Leu Ser Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp  
 385 390 395 400  
 Ile Leu Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn  
 405 410 415  
 Gly Glu Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln  
 420 425 430  
 Arg Thr Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg  
 435 440 445  
 Ser Tyr Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp  
 450 455 460  
 Arg Leu Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly  
 465 470 475 480  
 Leu Glu Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln  
 485 490 495  
 Gly Ser Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala  
 500 505 510  
 Pro Phe Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly  
 515 520 525  
 Leu Ser Ser Asn Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp  
 530 535 540  
 Ala Arg Leu Thr Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His  
 545 550 555 560  
 Pro Leu Leu Leu Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val  
 565 570 575  
 Lys Gly His Gln Val Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn  
 580 585 590  
 Gly Glu Glu Gln Xaa Asp Cys Trp Phe Ala Arg Asn Met Pro Pro Asn  
 595 600 605

<210> 470  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 470  
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
     1                    5                    10                    15  
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His  
                     20                    25                    30  
 Ile Cys Ser Gln Arg Ser Ser Ser Trp Glu Met Pro Pro Gln Gly Pro  
                     35                    40                    45  
 Ala Pro Asp His Val Gly Arg Ala  
     50                    55

<210> 471  
 <211> 540  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (137)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 471  
 Met Val Arg Thr Asp Gly His Thr Leu Ser Glu Lys Arg Asn Tyr Gln  
     1                    5                    10                    15  
 Val Thr Asn Ser Met Phe Gly Ala Ser Arg Lys Lys Phe Val Glu Gly  
                     20                    25                    30  
 Val Asp Ser Asp Tyr His Asp Glu Asn Met Tyr Tyr Ser Gln Ser Ser  
                     35                    40                    45  
 Met Phe Pro His Arg Ser Glu Lys Asp Met Leu Ala Ser Pro Ser Thr  
     50                    55                    60  
 Ser Gly Gln Leu Ser Gln Phe Gly Ala Ser Leu Tyr Gly Gln Gln Ser  
     65                    70                    75                    80  
 Ala Leu Gly Leu Pro Met Arg Gly Met Ser Asn Asn Thr Pro Gln Leu  
                     85                    90                    95  
 Asn Arg Ser Leu Ser Gln Gly Thr Gln Leu Pro Ser His Val Thr Pro  
     100                    105                    110  
 Thr Thr Gly Val Pro Thr Met Ser Leu His Thr Pro Pro Ser Pro Ser  
     115                    120                    125  
 Arg Gly Ile Leu Pro Met Asn Pro Xaa Asn Met Met Asn His Ser Gln  
     130                    135                    140

Val Gly Gln Gly Ile Gly Ile Pro Ser Arg Thr Asn Ser Met Ser Ser  
145 150 155 160  
Ser Gly Leu Gly Ser Pro Asn Arg Ser Ser Pro Ser Ile Ile Cys Met  
165 170 175  
Pro Lys Gln Gln Pro Ser Arg Gln Pro Phe Thr Val Asn Ser Met Ser  
180 185 190  
Gly Phe Gly Met Asn Arg Asn Gln Ala Phe Gly Met Asn Asn Ser Leu  
195 200 205  
Ser Ser Asn Ile Phe Asn Gly Thr Asp Gly Ser Glu Asn Val Thr Gly  
210 215 220  
Leu Asp Leu Ser Asp Phe Pro Ala Leu Ala Asp Arg Asn Arg Arg Glu  
225 230 235 240  
Gly Ser Gly Asn Pro Thr Pro Leu Ile Asn Pro Leu Ala Gly Arg Ala  
245 250 255  
Pro Tyr Val Gly Met Val Thr Lys Pro Ala Asn Glu Gln Ser Gln Asp  
260 265 270  
Phe Ser Ile His Asn Glu Asp Phe Pro Ala Leu Pro Gly Ser Ser Tyr  
275 280 285  
Lys Asp Pro Thr Ser Ser Asn Asp Asp Ser Lys Ser Asn Leu Asn Thr  
290 295 300  
Ser Gly Lys Thr Thr Ser Ser Thr Asp Gly Pro Lys Phe Pro Gly Asp  
305 310 315 320  
Lys Ser Ser Thr Thr Gln Asn Asn Asn Gln Gln Lys Lys Gly Ile Gln  
325 330 335  
Val Leu Pro Asp Gly Arg Val Thr Asn Ile Pro Gln Gly Met Val Thr  
340 345 350  
Asp Gln Phe Gly Met Ile Gly Leu Leu Thr Phe Ile Arg Ala Ala Glu  
355 360 365  
Thr Asp Pro Gly Met Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr  
370 375 380  
Leu Gly Leu Asn Leu Asn Ser Pro Glu Asn Leu Tyr Pro Lys Phe Ala  
385 390 395 400  
Ser Pro Trp Ala Ser Ser Pro Cys Arg Pro Gln Asp Ile Asp Phe His  
405 410 415  
Val Pro Ser Glu Tyr Leu Thr Asn Ile His Ile Arg Asp Lys Leu Ala  
420 425 430  
Ala Ile Lys Leu Gly Arg Tyr Gly Glu Asp Leu Leu Phe Tyr Leu Tyr  
435 440 445

Tyr Met Asn Gly Gly Asp Val Leu Gln Leu Leu Ala Ala Val Glu Leu  
 450 455 460  
 Phe Asn Arg Asp Trp Arg Tyr His Lys Glu Glu Arg Val Trp Ile Thr  
 465 470 475 480  
 Arg Ala Pro Gly Met Glu Pro Thr Met Lys Thr Asn Thr Tyr Glu Arg  
 485 490 495  
 Gly Thr Tyr Tyr Phe Phe Asp Cys Leu Asn Trp Arg Lys Val Ala Lys  
 500 505 510  
 Glu Phe His Leu Glu Tyr Asp Lys Leu Glu Glu Arg Pro His Leu Pro  
 515 520 525  
 Ser Thr Phe Asn Tyr Asn Pro Ala Gln Gln Ala Phe  
 530 535 540

<210> 472  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 472  
 Met Leu Phe Phe Leu Ser Leu Phe Leu Ser Leu Leu Leu Thr Leu Ser  
 1 5 10 15  
 Leu Pro Ser Phe Leu Pro Phe Ser Phe Phe Phe Ser Leu Phe Pro  
 20 25 30  
 His Leu Ser Ala Cys Leu Leu Pro Ser Leu Pro Ser Pro Phe Pro  
 35 40 45  
 Leu Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Pro Ser Phe  
 50 55 60  
 Leu Pro Ser Leu Leu Ser Pro Ser Phe Pro Ala Phe Phe Pro Ser Phe  
 65 70 75 80  
 Cys Gln Leu Ala Arg Arg Ser Pro Arg Lys Ser Thr Gln Met Leu Gln  
 85 90 95  
 Ser Thr Ser

<210> 473  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 473  
 Met Asn Tyr Ile Phe Leu Leu Met Ala Leu Pro His Leu Ile Ala Ile

1                    5                    10                    15  
 Ala Leu Thr Trp Gly Arg Tyr Ser Phe Ser Cys Leu Ala Asn Lys Glu  
                   20                    25                    30  
 Thr Glu Phe Gln Arg Cys Gln Val Thr Cys Leu Leu His Thr Leu Gly  
                   35                    40                    45  
 Val Leu Met Phe Asn Phe Glu Leu Arg Ser Ile Trp Leu Glu Ser Ser  
                   50                    55                    60  
 Leu His  
                   65

<210> 474  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 474  
 Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala  
                   1                    5                    10                    15  
 Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile  
                   20                    25                    30  
 Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe  
                   35                    40                    45  
 Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val  
                   50                    55                    60  
 Leu Ser Pro Gly Phe His Ser Ala  
                   65                    70

<210> 475  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 475  
 Met Leu Gln Arg Gly Gln His Leu Tyr Leu Val Val Phe Leu Met Val  
                   1                    5                    10                    15  
 Ser Phe Ile Pro Leu Leu Asn Pro Lys Gln Asp Leu Lys Lys Leu Lys  
                   20                    25                    30  
 Lys Asn Arg Thr Val Arg Asn His Phe  
                   35                    40

<210> 476

<211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 476  
 Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Ala Leu  
   1                  5                  10                  15  
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr  
                   20                  25                  30  
 Pro Leu Pro Asp Glu Ser Glu His Phe  
           35                  40

<210> 477  
 <211> 355  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (331)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (338)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (345)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 477  
 Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr  
   1                  5                  10                  15  
 Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Aa Leu Arg  
                   20                  25                  30  
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr  
           35                  40                  45  
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr  
   50                  55                  60  
 Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile  
   65                  70                  75                  80  
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu  
                   85                  90                  95  
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr  
           100                  105                  110

Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile  
 115 120 125  
 Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr  
 130 135 140  
 Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr  
 145 150 155 160  
 Leu Phe Ala Tyr Leu Met Cys Leu Tyr Gly Asn His Lys Thr Ser Ala  
 165 170 175  
 Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp  
 180 185 190  
 Ala Val Phe Cys Ala Gly Asn Val Ile Ala Gln Lys Leu Thr Glu Ala  
 195 200 205  
 Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys  
 210 215 220  
 Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu Ala Tyr  
 225 230 235 240  
 Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro  
 245 250 255  
 Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val Val Asn Gly  
 260 265 270  
 Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe  
 275 280 285  
 Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro  
 290 295 300  
 His Leu Leu Ser Pro Ser Lys Ile Lys Thr Phe Pro Phe Leu Ser Leu  
 305 310 315 320  
 Gly Asn Val Glu Phe Cys Phe Leu Val Val Xaa Leu Val Leu Cys Gly  
 325 330 335  
 Phe Xaa Val Trp Glu Ile Pro Ile Xaa Gly Ser Arg Asn Thr Cys Leu  
 340 345 350  
 Ala Asp Gln  
 355

<210> 478  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens  
 <400> 478

Met Gly Arg Gln Ala Leu Leu Leu Leu Ala Leu Cys Ala Thr Gly Ala  
 1 5 10 15  
 Gln Gly Leu Tyr Phe His Ile Gly Glu ThrGlu Lys Arg Cys Phe Ile  
 20 25 30  
 Glu Glu Ile Pro Asp Glu Thr Met Val Ile Gly Gln Ala Gly  
 35 40 45

<210> 479  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 479  
 Met Leu Ile Ser Val Asp Ser Asn Val Pro Val Val Phe Leu Leu Leu  
 1 5 10 15  
 Phe Ile Leu Val Ile Leu Cys His Met Glu Cys Lys Gly His Ile Tyr  
 20 25 30  
 Ile Cys Val Cys Val Cys Val Tyr Met Tyr Ile Phe Lys Asn Ile  
 35 40 45

<210> 480  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 480  
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu  
 1 5 10 15  
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu  
 20 25 30  
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu  
 35 40 45  
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys  
 50 55 60  
 Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu  
 65 70 75 80  
 Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val  
 85 90 95  
 Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe  
 100 105 110  
 Ser Ser Gln Val Leu Leu Pro Leu Leu  
 115 120

<210> 481  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 481  
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile  
 1 5 10 15  
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val  
 20 25 30  
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro  
 35 40 45  
 Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro  
 50 55 60  
 Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly  
 65 70 75 80  
 Ala Glu Ser Ala Leu Leu Gly  
 85

<210> 482  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 482  
 Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Leu Ser Leu Thr Phe  
 1 5 10 15  
 Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp  
 20 25 30  
 Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro  
 35 40 45  
 Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro  
 50 55 60  
 Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser  
 65 70 75 80  
 Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala  
 85 90 95

Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg  
 100 105 110

Gly Trp Thr Arg  
 115

<210> 483  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 483  
 Met Pro Trp His Val Cys Phe Phe Leu Ser Gly Leu LeuPhe Pro Ser  
 1 5 10 15  
 Pro Gln Thr Ser Leu Gln His Leu Cys Leu Leu Thr Ser Leu Ile Leu  
 20 25 30  
 Gly Val Thr Ile Ser Ala Tyr Glu His Ala Ile Asn Leu ProSer Leu  
 35 40 45  
 Gln Asn Ser Leu Leu Thr Ser His Pro Ser Val Ala Ala Leu Ser Leu  
 50 55 60  
 Leu Ser Ser Ser Leu Gln Gln Asn Ser Leu Lys Glu Leu Leu Ala Gly  
 65 70 75 80  
 His Ser Gly Ser Leu Leu  
 85

<210> 484  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 484  
 Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile  
 1 5 10

<210> 485  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 485  
 Met Val Lys Trp Ile Ile Leu Ser Cys Leu Ile Leu Lys Gly Lys Arg  
 1 5 10 15  
 Thr Leu Asn Ser Ser Thr Phe Tyr Ala Ala Asn Lys Ser SerThr Ile  
 20 25 30

Asn Arg Asn Leu Ser Trp Gln Ala Leu Pro Phe Thr His  
 35 40 45

<210> 486  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 486  
 Met Leu Lys Leu Ala Thr Ile Leu Leu Thr Leu Leu Leu Lys Asn Leu  
 1 5 10 15  
 Asp Ala Gly Leu Thr Asp Lys Leu Ser Arg Ser Asn Phe Ile Thr Asp  
 20 25 30  
 Phe Ile Leu Thr Lys Tyr  
 35

<210> 487  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 487  
 Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys  
 1 5 10 15  
 Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu  
 20 25 30  
 Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn  
 35 40

<210> 488  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 488  
 Met Pro Cys His Gly Leu Leu Ala Gln Gly Leu Ser Leu Ala Pro Leu  
 1 5 10 15  
 Pro Pro Trp Ala Leu Cys Cys Val Gly Val Ser Arg Ala Leu Gln Asp  
 20 25 30  
 Ile Gln Gln His Pro Arg Pro Pro Ala Pro Cys Gln  
 35 40

<210> 489  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 489  
 Met Ala Ala Leu Leu Leu Ala Gly Ile Cys Ile Leu Leu Asn Gly Val  
           1                  5                  10                  15  
 Ile Pro Gln Asp Gln Ser Ile Val Arg Thr Ser Leu Ala Val Leu Gly  
                   20                  25                  30  
 Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly  
                   35                  40                  45  
 Asn Cys Ile Pro Gln  
           50

<210> 490  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 490  
 Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile Trp  
           1                  5                  10                  15  
 Ser Ser Ala His Gln Tyr Lys Cys Pro Cys Tyr Ser Arg Gln Ser Gln  
                   20                  25                  30  
 Glu Lys

<210> 491  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 491  
 Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys  
           1                  5                  10                  15  
 Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu  
                   20                  25                  30  
 Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys  
                   35                  40                  45  
 Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asp Trp  
           50                  55                  60  
 Ser Leu Gly Phe  
           65

<210> 492  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<400> 492  
 Met Thr Ser Asn Phe Pro Phe Cys Thr Leu Ile Leu Gly Ile Ala Gln  
 1 5 10 15  
 Ala Gln Ala Cys Pro Gly Cys Pro Gly Asp Trp Pro Gly Leu Gly Ser  
 20 25 30  
 Gly Val Gly Glu Gly Leu His His Ile Arg Thr Cys Arg Thr Pro Ile  
 35 40 45  
 Pro Cys Ser Pro Pro Ala Pro Ala Ala Ala Cys Leu Gly Ser Gly His  
 50 55 60  
 Ala Arg Leu Pro Cys Val Leu Arg Leu Trp Pro Val Pro Ala Asn Leu  
 65 70 75 80  
 Ser Ser Pro Phe Arg Leu Glu Ala Leu His Cys Ser Phe Trp Ser Ser  
 85 90 95  
 Pro Leu Leu Pro Ala Pro His Leu Ala Phe Phe Gly Phe Arg Asp Leu  
 100 105 110  
 Leu Thr Asp Phe Leu Leu Ala Ala Cys Leu Leu Thr Phe Gln Lys Thr  
 115 120 125  
 Pro Leu Glu Leu Pro Met Ala Val Val His Leu Leu Val Ala Thr Pro  
 130 135 140  
 Cys Tyr Gln Met Leu Asp Asn Leu Pro Leu Pro Ser Ala Ala Ala Asn  
 145 150 155 160  
 Trp Cys

<210> 493  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 493  
 Met Gln Pro Ala Cys Leu Ala Pro Cys Leu Asp Ala Leu Thr Ser Phe  
 1 5 10 15  
 Cys Leu Gly Leu Leu Lys Leu Thr Phe Cys Leu Ala Phe Phe Pro Ser  
 20 25 30  
 Gly Val Leu Glu Gly Glu Cys Ser Phe Phe Thr Met Ser Arg Ser Leu

35                                      40                                      45  
 Ser His Pro Arg Thr Leu His Arg Tyr Thr Thr Glu Arg Pro Ala His  
     50                                      55                                      60  
 Ser Arg His  
     65

<210> 494  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 494  
 Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val  
     1                                      5                                      10                                      15  
 Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met  
                     20                                      25                                      30  
 Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu  
                     35                                      40                                      45

<210> 495  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 495  
 Met Thr Ala Met Ser Ile His Leu Phe Cys Thr Ala Leu Ser Cys Gly  
     1                                      5                                      10                                      15  
 Ser Ser Gly Gln Cys Asn Lys Ala Ile Lys Arg Asn Lys Ile Ser Asn  
                     20                                      25                                      30  
 Asp Trp Lys Asp Val Asn Val Ser Ser Phe Ile Glu Asn Met Ile His  
                     35                                      40                                      45  
 Arg Tyr Thr Tyr Thr Asn Ala Leu Asn Ser  
                     50                                      55

<210> 496  
 <211> 292  
 <212> PRT  
 <213> Homo sapiens

<400> 496  
 Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala  
     1                                      5                                      10                                      15  
 Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val

20	25	30
Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn 35 40 45		
Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu 50 55 60		
Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu 65 70 75 80		
Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu 85 90 95		
Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln 100 105 110		
Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr 115 120 125		
Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala 130 135 140		
Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu 145 150 155 160		
Ile Glu Thr Thr Arg Gly Leu Leu Pro Gly Ala Gly Gly Thr Gln Arg 165 170 175		
Leu Pro Arg Cys Leu Gly Val Ala Leu Ala Lys Glu Leu Ile Phe Thr 180 185 190		
Gly Arg Arg Leu Ser Gly Thr Glu Ala His Val Leu Gly Leu Val Asn 195 200 205		
His Ala Val Ala Gln Asn Glu Glu Gly Asp Ala Ala Tyr Gln Arg Ala 210 215 220		
Arg Ala Leu Ala Gln Glu Ile Leu Pro Gln Ala Pro Ile Ala Val Arg 225 230 235 240		
Leu Gly Lys Val Ala Ile Asp Arg Gly Thr Glu Val Asp Ile Ala Ser 245 250 255		
Gly Met Ala Ile Glu Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg 260 265 270		
Asp Arg Leu Glu Gly Met Ala Ala Phe Arg Glu Lys Arg Thr Pro Lys 275 280 285		
Phe Val Gly Lys 290		

<210> 497

<211> 121

<212> PRT  
<213> Homo sapiens

<400> 497

Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met  
1 5 10 15  
Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe Leu Arg  
20 25 30  
Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr  
35 40 45  
Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met  
50 55 60  
Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg  
65 70 75 80  
Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu  
85 90 95  
Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg  
100 105 110  
Phe Tyr Val Ser Val Lys Val Phe Lys  
115 120

<210> 498  
<211> 166  
<212> PRT  
<213> Homo sapiens

<400> 498

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe  
1 5 10 15  
Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala  
20 25 30  
Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr  
35 40 45  
His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg  
50 55 60  
Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser  
65 70 75 80  
Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser  
85 90 95  
Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu  
100 105 110

Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser  
115 120 125

Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu  
130 135 140

Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile  
145 150 155 160

Lys Ala Phe Pro Asp Ser  
165

<210> 499  
<211> 79  
<212> PRT  
<213> Homo sapiens

<400> 499  
Met Leu Ser Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg  
1 5 10 15

Gln Val Ser Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu  
20 25 30

Arg Gly Cys Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu  
35 40 45

Gly Leu Ser Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu  
50 55 60

Trp Pro Glu Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn  
65 70 75

<210> 500  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 500  
Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile  
1 5 10 15

Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp  
20 25 30

Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp  
35 40 45

Arg Phe  
50

<210> 501  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 501  
 Met Phe Cys Phe Tyr Leu Asn Tyr Phe Thr Asn Leu Phe Leu Phe Leu  
   1                  5                  10                  15  
 Thr Cys Ser Arg Ser Glu Ser Leu Ser Ser Pro Thr Gly Pro Tyr Ser  
           20                  25                  30  
 Gly Phe Pro Phe Leu Lys Ser Pro Pro Val Arg Asn Ser Leu Asn Lys  
           35                  40                  45  
 Gly Pro Leu Leu Val Gln Tyr Tyr Ser Phe Ser Ser His Leu Arg Val  
           50                  55                  60  
 Pro Arg Lys Lys Lys Gln Val Ile Arg Val Pro Val Arg Val Pro Pro  
           65                  70                  75                  80  
 Lys Ser Pro Ala Met Ser Pro Pro Ser Ser Pro Arg Phe His Phe Phe  
                   85                  90                  95  
 Thr Phe Ser Gly Pro Phe Pro Asn Ser Tyr  
           100                  105

<210> 502  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 502  
 Met Pro Val Leu Pro Gly Arg Thr Thr Ala Leu Leu Ser Leu Thr Leu  
   1                  5                  10                  15  
 Ala Phe Ala Val Pro Cys Ser Gly Val Glu Ala Gly Pro Cys Val Pro  
           20                  25                  30  
 Arg Ser His Gly Cys Ser Ser Trp Glu Ala Ser Val Cys Val Tr Ser  
           35                  40                  45  
 Ser Thr Pro Gly Gly Ser Trp Arg Ala Arg Ala Leu Phe Pro Ser Ala  
           50                  55                  60  
 Ala Trp His Arg Xaa Ala Ala Trp Asp Ser Pro Trp Thr Gln Thr Gly  
           65                  70                  75                  80  
 Asp Phe Ala Arg Gly Ala Met Gly Gly Ala Gly Ala Leu Pro Gly Gly  
                   85                  90                  95

Cys Val Cys Ile Ser Gly Arg Pro Arg Ala Gln Lys Leu Pro Ala Leu  
100 105 110

<210> 503  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 503  
Met Ile Asp Ile Cys His Ser Leu Arg Arg Glu His Phe Leu Leu Trp  
1 5 10 15  
Ser Phe Leu Gly Leu Phe Tyr Trp Ala Val Asn Gly Lys Ser Val Cys  
20 25 30  
Val Ser Leu Leu His Pro Lys His Leu Gly Lys Asn Glu Ser Leu Leu  
35 40 45

Ile

<210> 504  
<211> 44  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 504  
Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly Ile Ser Phe Leu  
1 5 10 15  
Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr Asn Phe Ala Ser  
20 25 30  
Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala  
35 40

<210> 505

.

<211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 505  
 Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln  
     1                    5                    10                    15  
 Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser  
                     20                    25                    30  
 Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln  
                     35                    40                    45  
 Asp Leu Glu Gln Glu Gly Leu Glu Ala Thr Gln Gly Leu Leu Ala Gly  
                     50                    55                    60  
 Glu Trp Ala Pro Pro Leu Trp Xaa Leu Gly Ser Leu Phe Gln Ala Phe  
                     65                    70                    75                    80  
 Val Lys Arg Glu Ser Gln Ala Tyr Ala  
                     85

<210> 506  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 506  
 Met Glu Arg Leu Val Leu Ser Leu Trp Ser Leu Thr Cys Arg Ala Ser  
     1                    5                    10                    15  
 Pro Ala Asn Thr His Pro Arg Thr Thr Ser Arg Thr Arg Thr Leu Asp  
                     20                    25                    30  
 Val Lys Thr Lys Cys Pro Val Glu Ala Val Lys Leu Ser Glu Met Leu  
                     35                    40                    45  
 Pro Pro Val  
                     50

<210> 507  
 <211> 508  
 <212> PRT  
 <213> Homo sapiens

<400> 507

```

Met Asp Pro Lys Leu Gly Arg Met Ala Ala Ser Leu Leu Ala Val Leu
  1          5          10          15

Leu Leu Leu Leu Leu Glu Arg Gly Met Phe Ser Ser Pro Ser Pro Pro
  20          25          30

Pro Ala Leu Leu Glu Lys Val Phe Gln Tyr Ile Asp Leu His Gln Asp
  35          40          45

Glu Phe Val Gln Thr Leu Lys Glu Trp Val Ala Ile Glu Ser Asp Ser
  50          55          60

Val Gln Pro Val Pro Arg Phe Arg Gln Glu Leu Phe Arg Met Met Ala
  65          70          75          80

Val Ala Ala Asp Thr Leu Gln Arg Leu Gly Ala Arg Val Ala Ser Val
  85          90          95

Asp Met Gly Pro Gln Gln Leu Pro Asp Gly Gln Ser Leu Pro Ile Pro
 100          105          110

Pro Val Ile Leu Ala Glu Leu Gly Ser Asp Pro Thr Lys Gly Thr Val
 115          120          125

Cys Phe Tyr Gly His Leu Asp Val Gln Pro Ala Asp Arg Gly Asp Gly
 130          135          140

Trp Leu Thr Asp Pro Tyr Val Leu Thr Glu Val Asp Gly Lys Leu Tyr
 145          150          155          160

Gly Arg Gly Ala Thr Asp Asn Lys Gly Pro Val Leu Ala Trp Ile Asn
 165          170          175

Ala Val Ser Ala Phe Arg Ala Leu Glu Gln Asp Leu Pro Val Asn Ile
 180          185          190

Lys Phe Ile Ile Glu Gly Met Glu Glu Ala Gly Ser Val Ala Leu Glu
 195          200          205

Glu Leu Val Glu Lys Glu Lys Asp Arg Phe Phe Ser Gly Val Asp Tyr
 210          215          220

Ile Val Ile Ser Asp Asn Leu Trp Ile Ser Gln Arg Lys Pro Ala Ile
 225          230          235          240

Thr Tyr Gly Thr Arg Gly Asn Ser Tyr Phe Met Val Glu Val Lys Cys
 245          250          255

```

Arg Asp Gln Asp Phe His Ser Gly Thr Phe Gly Gly Ile Leu His Glu  
                   260                  265                  270  
 Pro Met Ala Asp Leu Val Ala Leu Leu Gly Ser Leu Val Asp Ser Ser  
                   275                  280                  285  
 Gly His Ile Leu Val Pro Gly Ile Tyr Asp Glu Val Val Pro Leu Thr  
                   290                  295                  300  
 Glu Glu Glu Ile Asn Thr Tyr Lys Ala Ile His Leu Asp Leu Glu Glu  
                   305                  310                  315                  320  
 Tyr Arg Asn Ser Ser Arg Val Glu Lys Phe Leu Phe Asp Thr Lys Glu  
                   325                  330                  335  
 Glu Ile Leu Met His Leu Trp Arg Tyr Pro Ser Leu Ser Ile His Gly  
                   340                  345                  350  
 Ile Glu Gly Ala Phe Asp Glu Pro Gly Thr Lys Thr Val Ile Pro Gly  
                   355                  360                  365  
 Arg Val Ile Gly Lys Phe Ser Ile Arg Leu Val Pro His Met Asn Val  
                   370                  375                  380  
 Ser Ala Val Glu Lys Gln Val Thr Arg His Leu Glu Asp Val Phe Ser  
                   385                  390                  395                  400  
 Lys Arg Asn Ser Ser Asn Lys Met Val Val Ser Met Thr Leu Gly Leu  
                   405                  410                  415  
 His Pro Trp Ile Ala Asn Ile Asp Asp Thr Gln Tyr Leu Ala Ala Lys  
                   420                  425                  430  
 Arg Ala Ile Arg Thr Val Phe Gly Thr Glu Pro Asp Met Ile Arg Asp  
                   435                  440                  445  
 Gly Ser Thr Ile Pro Ile Ala Lys Met Phe Gln Glu Ile Val His Lys  
                   450                  455                  460  
 Ser Val Val Leu Ile Pro Leu Gly Ala Val Asp Asp Gly Glu His Ser  
                   465                  470                  475                  480  
 Gln Asn Glu Lys Ile Asn Arg Trp Asn Tyr Ile Glu Gly Thr Lys Leu  
                   485                  490                  495  
 Phe Ala Ala Phe Phe Leu Glu Met Ala Gln Leu His  
                   500                  505

<210> 508  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring amino acids

<400> 508

```
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1              5              10              15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
      20              25              30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
      35              40              45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln
      50              55              60

Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly
      65              70              75
```

<210> 509

<211> 108

<212> PRT

<213> Homo sapiens

<400> 509

```
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1              5              10              15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
      20              25              30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
      35              40              45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
      50              55              60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
      65              70              75              80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
      85              90              95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
      100              105
```

<210> 510

<211> 44

<212> PRT

<213> Homo sapiens

<400> 510

```
Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr
```

1				5					10					15		
Ser	Phe	Leu	Thr	Leu	Ser	Trp	Tyr	Thr	Thr	Trp	Gln	Asn	Gly	Lys	Gly	
			20					25					30			
Lys	Glu	Asn	Asp	Ser	Glu	Asn	Val	His	Glu	Met	Tyr					
		35					40									

<400>	511														
Met	Ala	Cys	Arg	Lys	Leu	Ala	Val	Ala	His	Pro	Leu	Leu	Leu	Leu	Arg
1				5					10						15
His	Leu	Pro	Met	Ile	Ala	Ala	Leu	Leu	His	Gly	Arg	Thr	His	Leu	Asn
			20					25					30		
Phe	Gln	Glu	Phe	Arg	Gln	Gln	Asn	His	Leu	Ser	Cys	Phe	Leu	His	Val
		35					40					45			
Leu	Gly	Leu	Leu	Glu	Leu	Leu	Gln	Pro	His	Val	Phe	Arg	Ser	Glu	His
	50					55					60				
Gln	Gly	Ala	Leu	Trp	Asp	Cys	Leu	Leu	Ser	Phe	Ile	Arg	Leu	Leu	Leu
65					70					75					80
Asn	Tyr	Arg	Lys	Ser	Ser	Arg	His	Leu	Ala	Ala	Phe	Ile	Asn	Lys	Phe
				85					90					95	
Val	Gln	Phe	Ile	His	Lys	Tyr	Ile	Thr	Tyr	Asn	Ala	Pro	Ala	Ala	Ile
			100					105					110		
Ser	Phe	Leu	Gln	Lys	His	Ala	Asp	Pro	Leu	His	Asp	Leu	Ser	Phe	Asp
		115					120					125			
Asn	Ser	Asp	Leu	Val	Met	Leu	Lys	Ser	Leu	Leu	Ala	Gly	Leu	Ser	Leu
	130					135					140				
Pro	Ser	Arg	Asp	Asp	Arg	Thr	Asp	Arg	Gly	Leu	Asp	Glu	Glu	Gly	Glu
145					150					155					160
Glu	Glu	Ser	Ser	Ala	Gly	Ser	Leu	Pro	Leu	Val	Ser	Val	Ser	Leu	Phe
				165					170					175	
Thr	Pro	Leu	Thr	Ala	Ala	Glu	Met	Ala	Pro	Tyr	Met	Lys	Arg	Leu	Ser
			180					185					90		
Arg	Gly	Gln	Thr	Val	Glu	Asp	Leu	Leu	Glu	Val	Leu	Ser	Asp	Ile	Asp
		195					200					205			
Glu	Met	Ser	Arg	Arg	Arg	Pro	Glu	Ile	Leu	Ser	Phe	Phe	Ser	Thr	Asn
	210					215					220				

Leu Gln Arg Leu Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala  
 225 230 235 240  
 Phe Ser Leu Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala  
 245 250 255  
 Ala Phe Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asp Phe Glu  
 260 265 270  
 Val Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys  
 275 280 285  
 Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly Met  
 290 295 300  
 Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu Arg Ile  
 305 310 315 320  
 Leu His Met Glu Ala Val Met  
 325

<210> 512  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 512  
 Met Gly Asp Lys Leu Gly Met Ala Arg Ala Pro Ser Val Ala Leu Ala  
 1 5 10 15  
 Gln Leu Trp Leu Ile Cys Leu Cys ProGlu Ser Leu Ala Ser Phe Val  
 20 25 30  
 Gln Ala Val Pro Trp Lys Val Leu Gln Pro Ser Ser Asn Arg Ser Thr  
 35 40 45  
 Asp Cys Ser Pro His Met Arg Pro Thr Cys Glu ThrLeu Gly Ser Arg  
 50 55 60  
 Lys Ala Gln Asp Leu Val Leu Asp Thr Met Cys Leu Ser Thr Asp Asp  
 65 70 75 80  
 Cys Gln Gly Leu Ile Cys Arg Gly His Arg Ser  
 85 90

<210> 513  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 513  
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln

1	5	10	15
Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg	20	25	30
Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile	35	40	45
Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Ser Val Cys Ser	50	55	60
Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp	65	70	75
Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr	85	90	95
Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn	100	105	110
Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser	115	120	125
Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala	130	135	140
Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu	145	150	155
Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys	165	170	175
Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr	180	185	190
His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His	195	200	205
Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val	210	215	220
Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile	225	230	235
			240
Gly Tyr Gln			

<210> 514  
 <211> 301  
 <212> PRT  
 <213> Homo sapiens

<400> 514  
 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val  
 1 5 10 15

Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln  
                   20                                  25                                  30  
 Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg  
                   35                                  40                                  45  
 Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile  
                   50                                  55                                  60  
 Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu  
                   65                                  70                                  75                                  80  
 Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe  
                                   85                                  90                                  95  
 Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met  
                   100                                  105                                  110  
 Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln  
                   115                                  120                                  125  
 Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val  
                   130                                  135                                  140  
 Leu His Val Ser Trp Asn Asp Ala Arg Ala Tyr Cys Ala Trp Arg Gly  
                   145                                  150                                  155                                  160  
 Lys Arg Leu Pro Thr Glu Glu Glu Trp Gu Phe Ala Ala Arg Gly Gly  
                                   165                                  170                                  175  
 Leu Lys Gly Gln Val Tyr Pro Trp Gly Asn Trp Phe Gln Pro Asn Arg  
                   180                                  185                                  190  
 Thr Asn Leu Trp Gln Gly Lys Phe Pro Lys Gy Asp Lys Ala Glu Asp  
                   195                                  200                                  205  
 Gly Phe His Gly Val Ser Pro Val Asn Ala Phe Pro Ala Gln Asn Asn  
                   210                                  215                                  220  
 Tyr Gly Leu Tyr Asp Leu Leu Gly Asn Val Trp Glu Trp Thr Ala Ser  
                   225                                  230                                  235                                  240  
 Pro Tyr Gln Ala Ala Glu Gln Asp Met Arg Val Leu Arg Gly Ala Ser  
                                   245                                  250                                  255  
 Trp Ile Asp Thr Ala Asp Gly Ser Ala Asn His Arg Ala Arg Val Thr  
                                   260                                  265                                  270  
 Thr Arg Met Gly Asn Thr Pro Asp Ser Ala Ser Asp Asn Leu Gly Phe  
                   275                                  280                                  285  
 Arg Cys Ala Ala Asp Ala Gly Arg Pro Pro Gly Glu Leu  
                   290                                  295                                  300

<210> 515  
 <211> 438  
 <212> PRT  
 <213> Homo sapiens

<400> 515  
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro  
           1                  5                  10                  15  
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu  
                   20                  25                  30  
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala  
                   35                  40                  45  
 Trp Phe Ile Ala Gly Ile Phe Leu Leu Leu Thr Ile Pro Ile Ser Leu  
           50                  55                  60  
 Trp Val Ile Leu Gln His Leu Val His Tyr Thr Gln Pro Glu Leu Gln  
           65                  70                  75                  80  
 Lys Pro Ile Ile Arg Ile Leu Trp Met Val Pro Ile Tyr Ser Leu Asp  
                   85                  90                  95  
 Ser Trp Ile Ala Leu Lys Tyr Pro Gly Ile Ala Ile Tyr Val Asp Thr  
                   100                  105                  110  
 Cys Arg Glu Cys Tyr Glu Ala Tyr Val Ile Tyr Asn Phe Met Gly Phe  
           115                  120                  125  
 Leu Thr Asn Tyr Leu Thr Asn Arg Tyr Pro Asn Leu Val Leu Ile Leu  
           130                  135                  140  
 Glu Ala Lys Asp Gln Gln Lys His Phe Pro Pro Leu Cys Cys Cys Pro  
           145                  150                  155                  160  
 Pro Trp Ala Met Gly Glu Val Leu Leu Phe Arg Cys Lys Leu Gly Val  
                   165                  170                  175  
 Leu Gln Tyr Thr Val Val Arg Pro Phe Thr Thr Ile Val Ala Leu Id  
                   180                  185                  190  
 Cys Glu Leu Leu Gly Ile Tyr Asp Glu Gly Asn Phe Ser Phe Ser Asn  
           195                  200                  205  
 Ala Trp Thr Tyr Leu Val Ile Ile Asn Asn Met Ser Gln Leu Phe Ala  
           210                  215                  220  
 Met Tyr Cys Leu Leu Leu Phe Tyr Lys Val Leu Lys Glu Glu Leu Ser  
           225                  230                  235                  240  
 Pro Ile Gln Pro Val Gly Lys Phe Leu Cys Val Lys Leu Val Val Phe  
                   245                  250                  255  
 Val Ser Phe Trp Gln Ala Val Val Ile Ala Leu Leu Val Lys Val Gly  
                   260                  265                  270

Val Ile Ser Glu Lys His Thr Trp Glu Trp Gln Thr Val Glu Ala Val  
 275 280 285  
 Ala Thr Gly Leu Gln Asp Phe Ile Ile Cys Ile Glu Met Phe Leu Ala  
 290 295 300  
 Ala Ile Ala His His Tyr Thr Phe Ser Tyr Lys Pro Tyr Val Gln Glu  
 305 310 315 320  
 Ala Glu Glu Gly Ser Cys Phe Asp Ser Phe Leu Ala Met Trp Asp Val  
 325 330 335  
 Ser Asp Ile Arg Asp Asp Ile Ser Glu Gln Val Arg His Val Gly Arg  
 340 345 350  
 Thr Val Arg Gly His Pro Arg Lys Lys Leu Phe Pro Glu Asp Gln Asp  
 355 360 365  
 Gln Asn Glu His Thr Ser Leu Leu Ser Ser Ser Ser Gln Asp Ala Ile  
 370 375 380  
 Ser Ile Ala Ser Ser Met Pro Pro Ser Pro Met Gly His Tyr Gln Gly  
 385 390 395 400  
 Phe Gly His Thr Val Thr Pro Gln Thr Thr Pro Thr Thr Ala Lys Ile  
 405 410 415  
 Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys Lys Glu Pro Ser  
 420 425 430  
 Asp Lys Ser Val Asp Ser  
 435

<210> 516  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 516  
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1 5 10 15  
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro  
 20 25 30  
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr  
 35 40 45  
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser  
 50 55 60  
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile  
 65 70 75 80  
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile

	85		90		95
Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met					
	100		105		
<210> 517					
<211> 234					
<212> PRT					
<213> Homo sapiens					
<400> 517					
Met Arg Ile Arg Phe Thr Ser Pro His Pro Lys Asp Phe Pro Asp Glu					
1		5		10	15
Val Leu Gln Leu Ile His Glu Arg Asp Asn Ile Cys Lys Gln Ile His					
	20		25		30
Leu Pro Ala Gln Ser Gly Ser Ser Arg Val Leu Glu Ala Met Arg Arg					
	35		40		45
Gly Tyr Ser Arg Glu Ala Tyr Val Glu Leu Val His His Ile Arg Glu					
	50		55		60
Ser Ile Pro Gly Val Ser Leu Ser Ser Asp Phe Ile Ala Gly Phe Cys					
	65		70		75
Gly Glu Thr Glu Glu Asp His Val Gln Thr Val Ser Leu Leu Arg Glu					
		85		90	95
Val Gln Tyr Asn Met Gly Phe Leu Phe Ala Tyr Ser Met Arg Gln Lys					
	100		105		110
Thr Arg Ala Tyr His Arg Leu Lys Asp Asp Val Pro Glu Glu Val Lys					
	115		120		125
Leu Arg Arg Leu Glu Glu Leu Ile Thr Ile Phe Arg Glu Glu Ala Thr					
	130		135		140
Lys Ala Asn Gln Thr Ser Val Gly Cys Thr Gln Leu Val Leu Val Glu					
	145		150		155
Gly Leu Ser Lys Arg Ser Ala Thr Asp Leu Cys Gly Arg Asn Asp Gly					
		165		170	175
Asn Leu Lys Val Ile Phe Pro Asp Ala Glu Met Glu Asp Val Asn Asn					
	180		185		190
Pro Gly Leu Arg Val Arg Ala Gln Pro Gly Asp Tyr Val Leu Val Lys					
	195		200		205
Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His Val Leu Cys Arg					
	210		215		220
Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys					
	225		230		

<210> 518  
 <211> 470  
 <212> PRT  
 <213> Homo sapiens

<400> 518  
 Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Trp  
   1                  5                  10                  15  
 Ser Ser Arg Gly Ala Gly Leu Leu Leu Leu Leu Gly Gln Val Ala Asp  
                   20                  25                  30  
 Gly Leu Cys Thr Pro Leu Val Gly Tyr Glu Ala Asp Arg Ala Ala Ser  
                   35                  40                  45  
 Cys Cys Ala Arg Tyr Gly Pro Arg Lys Ala Trp His Leu Val Gly Thr  
                   50                  55                  60  
 Val Cys Val Leu Leu Ser Phe Pro Phe Ile Phe Ser Pro Cys Leu Gly  
   65                  70                  75                  80  
 Cys Gly Ala Ala Thr Pro Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro  
                   85                  90                  95  
 Phe Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His  
                   100                  105                  110  
 Leu Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu  
                   115                  120                  125  
 Leu Thr Ala Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val  
   130                  135                  140  
 Tyr Gly Ala Ala Trp Leu Leu Leu His Leu Gln Gly Ser Ser Arg Val  
  145                  150                  155                  160  
 Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln Asp  
                   165                  170                  175  
 Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly Ala  
                   180                  185                  190  
 Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg Pro  
                   195                  200                  205  
 His Ala Glu Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala Thr  
   210                  215                  220  
 Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Pro Ala Phe  
  225                  230                  235                  240  
 Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn Leu  
                   245                  250                  255

Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu Pro  
 260 265 270  
 Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly Phe  
 275 280 285  
 Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg Asn  
 290 295 300  
 Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp  
 305 310 315 320  
 Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val  
 325 330 335  
 Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met  
 340 345 350  
 Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val Tyr  
 355 360 365  
 Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met  
 370 375 380  
 Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala  
 385 390 395 400  
 Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val  
 405 410 415  
 Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr  
 420 425 430  
 Arg Leu Arg Arg Ser Arg Gly Gly Glu His Arg Thr Pro Ser Glu Gly  
 435 440 445  
 Glu Gly Ile Ser Thr Ala Pro Pro Pro Cys Trp Asn Glu Thr Gln Pro  
 450 455 460  
 Gln Gly Gly Ala Lys Leu  
 465 470

<210> 519  
 <211> 260  
 <212> PRT  
 <213> Homo sapiens

<400> 519  
 Met Ala Gly Ser Pro Leu Leu Trp Gly Pro Arg Ala Gly Gly Val Gly  
 1 5 10 15  
 Leu Leu Val Leu Leu Leu Gly Leu Phe Arg Pro Pro Pro Ala Leu  
 20 25 30  
 Cys Ala Arg Pro Val Lys Glu Pro Arg Gly Leu Ser Ala Ala Ser Pro

35	40	45
Pro Leu Ala Glu Thr Gly Ala	Pro Arg Arg Phe Arg Arg Ser Val Pro	
50	55	60
Arg Gly Glu Ala Ala Gly Ala Val Gln Asp Leu Ala Arg Ala Leu Ala		
65	70	75
His Leu Leu Glu Ala Glu Arg Gln Glu Arg Ala Arg Ala Glu Ala Gln		
85	90	95
Glu Ala Glu Asp Gln Gln Ala Arg Val Leu Ala Gln Leu Leu Arg Val		
100	105	110
Trp Gly Ala Pro Arg Asn Ser Asp Pro Ala Leu Gly Leu Asp Asp Asp		
115	120	125
Pro Asp Ala Pro Ala Ala Gln Leu Ala Arg Ala Leu Leu Arg Ala Arg		
130	135	140
Leu Asp Pro Ala Ala Leu Ala Ala Gln Leu Val Pro Ala Pro Val Pro		
145	150	155
Ala Ala Ala Leu Arg Pro Arg Pro Pro Val Tyr Asp Asp Gly Pro Ala		
165	170	175
Gly Pro Asp Ala Glu Glu Ala Gly Asp Glu Thr Pro Asp Val Asp Pro		
180	185	190
Glu Leu Leu Arg Tyr Leu Leu Gly Arg Ile Leu Ala Gly Ser Ala Asp		
195	200	205
Ser Glu Gly Val Ala Ala Pro Arg Arg Leu Arg Arg Ala Ala Asp His		
210	215	220
Asp Val Gly Ser Glu Leu Pro Pro Glu Gly Val Leu Gly Ala Leu Leu		
225	230	235
Arg Val Lys Arg Leu Glu Thr Pro Ala Pro Gln Val Pro Ala Arg Arg		
245	250	255
Leu Leu Pro Pro		
260		

<210> 520  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 520  
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg  
 1 5 10 15  
 Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn  
 20 25 30

Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr  
35 40 45  
Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala  
50 55 60  
Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met  
65 70 75 80  
Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser  
85 90 95

<210> 521  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 521  
Met Asn Leu Ser Phe Leu Ser Phe Phe Leu Phe Phe Tyr Leu Leu Trp  
1 5 10 15  
Ser Pro Ala Glu Ser Val Tyr Lys Lys Gly Met Val Lys Lys Asn Leu  
20 25 30  
Ser His Ser Ile Val Glu Lys Ile Lys  
35 40

<210> 522  
<211> 163  
<212> PRT  
<213> Homo sapiens

<400> 522  
Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys  
1 5 10 15  
Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala  
20 25 30  
Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala  
35 40 45  
Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly  
50 55 60  
Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn  
65 70 75 80  
Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys  
85 90 95  
Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val

	100		105		110										
Ser	Leu	Ala	Gly	Ser	Val	Tyr	Leu	Ala	Trp	Ile	Leu	Phe	Phe	Val	Leu
	115						120				125				
Tyr	Asp	Phe	Cys	Ile	Val	Cys	Ile	Thr	Thr	Tyr	Ala	Ile	Asn	Val	Ser
	130					135					140				
Leu	Met	Trp	Leu	Ser	Phe	Arg	Lys	Val	Gln	Glu	Pro	Gln	Gly	Lys	Ala
145					150					155					160
Lys Arg His															

<210> 523  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 523  
 Met Arg Pro Leu Leu Leu Gly Gly Tyr Trp Val Leu Cys Leu Ser Val  
 1 5 10 15  
 Leu Gly His Ala Ala Leu Tyr His Phe Trp Leu Arg Glu Glu Gly Lys  
 20 25 30  
 Gly Pro Pro Gln Val Xaa Ser Val Leu Ala Leu Ala Leu Pro Ala Gly  
 35 40 45  
 Ser Cys Ala Pro Gly Leu Pro Phe Pro Gly Pro Leu Ile Pro Thr Gln  
 50 55 60  
 Leu Leu Phe Ala Leu Glu Trp Gly Thr Pro Thr Pro Leu Arg Asp His  
 65 70 75 80  
 Pro Pro His Ser Met His Ser Ala Pro Gln Asn Pro Pro Val Phe Leu  
 85 90 95  
 Gly Thr His Thr Cys Pro Pro Ser Trp Tyr Phe Arg Leu Ile Pro Gln  
 100 105 110  
 Ala

<210> 524  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 524

Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn  
1 5 10 15  
Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe  
20 25 30  
Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val  
35 40 45  
Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys  
50 55 60  
Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu  
65 70 75 80  
Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr  
85 90 95  
Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met  
100 105 110  
Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met  
115 120 125  
Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met  
130 135 140  
Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn  
145 150 155 160  
Glu

<210> 525

<211> 348

<212> PRT

<213> Homo sapiens

<400> 525

Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu  
1 5 10 15  
Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His  
20 25 30  
Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly  
35 40 45  
Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val  
50 55 60  
Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr  
65 70 75 80

Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met  
                     85                    90                    95  
 Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp  
                     100                    105                    110  
 Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln  
                     115                    120                    125  
 Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp  
                     130                    135                    140  
 Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu  
 145                    150                    155                    160  
 Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys  
                     165                    170                    175  
 Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys  
                     180                    185                    190  
 Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu  
                     195                    200                    205  
 Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala  
                     210                    215                    220  
 Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr  
 225                    230                    235                    240  
 Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu  
                     245                    250                    255  
 Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His Lys Tyr Ala Thr  
                     260                    265                    270  
 Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr  
                     275                    280                    285  
 Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro  
                     290                    295                    300  
 Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg  
 305                    310                    315                    320  
 Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser  
                     325                    330                    335  
 Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly  
                     340                    345

<210> 526  
 <211> 44  
 <212> PRT

<213> Homo sapiens

<400> 526

Met Pro Leu Cys Gly Leu Tyr Cys Leu Arg Ile Leu Met Phe Pro Leu  
1 5 10 15  
Arg Ser Ala Asn Ser Val Pro Leu Gln Cys Leu Pro Pro Ser Ser Leu  
20 25 30  
Ala Asn Lys Asp Ser His Phe Arg Ala Pro Arg Lys  
35 40

<210> 527

<211> 50

<212> PRT

<213> Homo sapiens

<400> 527

Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser  
1 5 10 15  
Leu Leu Gln Gly Phe Arg Leu Leu Leu Leu Cys Val Cys Pro Gly Trp  
20 25 30  
Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp  
35 40 45  
Ile Gly  
50

<210> 528

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp  
1 5 10 15  
Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly  
20 25 30  
Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser  
35 40 45  
Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro  
50 55 60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala  
 65 70 75 80  
 Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg  
 85 90 95  
 Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His  
 100 105 110  
 Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp  
 115 120 125  
 Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln  
 130 135 140  
 Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val  
 145 150 155 160  
 Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu  
 165 170 175  
 Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg  
 180 185 190  
 Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly  
 195 200 205

<210> 529  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 529  
 Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr  
 1 5 10 15  
 Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His  
 20 25 30  
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala  
 35 40 45  
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg  
 50 55 60  
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu  
 65 70 75 80  
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu  
 85 90 95  
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr  
 100 105 110  
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp

115                      120                      125  
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro  
 130                      135                      140  
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser  
 145                      150                      155                      160  
 His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu  
 165                      170                      175  
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg  
 180                      185                      190

<210> 530  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 530  
 Met Ser Arg Phe Ile Leu Asn His Leu Val Leu Ala Ile P~~ro~~ Leu Arg  
 1                      5                      10                      15  
 Val Leu Val Val Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met  
 20                      25                      30  
 Leu Gly Arg His Asn Val Thr Asp Val Ala Phe Gly Phe Phe Le Gly  
 35                      40                      45  
 Tyr Met Gln Tyr Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn  
 50                      55                      60  
 Ala Pro Val Leu Phe Leu Leu Trp Ser Gln Arg  
 65                      70                      75

<210> 531  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 531  
 Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu  
 1                      5                      10                      15  
 Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser HisCys Leu Pro Pro Tyr  
 20                      25                      30  
 Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys  
 35                      40                      45  
 Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro SerPhe Ile  
 50                      55                      60

Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu  
65 70 75 80

Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser  
85 90 95

Gly

<210> 532

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring amino acids

<400> 532

Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr  
1 5 10 15

Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu  
20 25 30

Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val  
35 40 45

Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys  
50 55 60

Val Leu Val Phe Ser Leu Ala Leu His SerVal Phe Glu Gly Leu Ala  
65 70 75 80

Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala  
85 90 95

Leu Leu Leu His Lys Gly Ile Leu AlaVal Ser Leu Ser Leu Arg Leu  
100 105 110

Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu  
115 120 125

Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu GlyAla Ala Leu Ala  
130 135 140

Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly  
145 150 155 160

Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu IleLeu Leu  
165 170 175

Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg  
180 185

<210> 533  
 <211> 298  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 533

Met	Phe	Phe	Phe	Phe	Asp	Ser	Val	Gln	Val	Val	Phe	Thr	Ile	Cys	Thr
1				5					10					15	
Ala	Val	Leu	Ala	Thr	Ile	Ala	Phe	Ala	Phe	Leu	Leu	Leu	Pro	Met	Cys
			20					25					30		
Gln	Tyr	Leu	Thr	Arg	Pro	Cys	Ser	Pro	Gln	Asn	Lys	Ile	Ser	Phe	Gly
		35					40					45			
Cys	Cys	Gly	Arg	Phe	Thr	Ala	Ala	Glu	Leu	Leu	Ser	Phe	Ser	Leu	Ser
	50					55					60				
Val	Met	Leu	Val	Leu	Ile	Trp	Val	Leu	Thr	Gly	His	Trp	Leu	Leu	Met
65					70					75					80
Asp	Ala	Leu	Ala	Met	Gly	Xaa	Cys	Val	Ala	Met	Ile	Ala	Phe	Val	Arg
				85					90					95	
Leu	Pro	Ser	Leu	Lys	Val	Ser	Cys	Leu	Leu	Leu	Ser	Gly	Leu	Leu	Ile
			100					105					110		
Tyr	Asp	Val	Phe	Trp	Val	Phe	Phe	Ser	Ala	Tyr	Ile	Phe	Asn	Ser	Asn
		115					120					125			
Val	Met	Val	Lys	Val	Ala	Thr	Gln	Pro	Ala	Asp	Asn	Pro	Leu	Asp	Val
	130					135					140				
Leu	Ser	Arg	Lys	Leu	His	Leu	Gly	Pro	Asn	Val	Gly	Arg	Asp	Val	Pro
145					150				155					160	
Arg	Leu	Ser	Leu	Pro	Gly	Lys	Leu	Val	Phe	Pro	Ser	Ser	Thr	Gly	Ser
				165					170					175	
His	Phe	Ser	Met	Leu	Gly	Ile	Gly	Asp	Ile	Val	Met	Pro	Gly	Leu	Leu
			180					185					190		
Leu	Cys	Phe	Val	Leu	Arg	Tyr	Asp	Asn	Tyr	Lys	Lys	Gln	Ala	Ser	Gly
		195					200					205			
Asp	Ser	Cys	Gly	Ala	Pro	Gly	Pro	Ala	Asn	Ile	Ser	Gly	Arg	Met	Gln
	210					215					220				
Lys	Val	Ser	Tyr	Phe	His	Cys	Thr	Leu	Ile	Gly	Tyr	Phe	Val	Gly	Leu

225		230		235		240
Leu Thr Ala Thr Val	Ala Ser Arg Ile His	Arg Ala Ala Gln Pro Ala				
	245		250		255	
Leu Leu Tyr Leu Val Pro Phe Thr Leu Leu Pro Leu Leu Thr Met Ala						
	260		265		270	
Tyr Leu Lys Gly Asp Leu Arg Arg Met Trp Ser Glu Pro Phe His Ser						
	275		280		285	
Lys Ser Ser Ser Ser Arg Phe Leu Glu Val						
	290		295			

<210> 534  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 534  
 Met Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr  
   1                  5                  10                  15  
 Leu Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn  
           20                  25                  30

Cys Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu ~~Asp~~ His  
                   35                                  40                                  45  
 Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala  
           50                                  55                                  60  
 Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val  
       65                                  70                                  75                                  80  
 Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys  
                                   85                                  90                                  95  
 Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val  
                   100                                  105                                  110  
 Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr  
           115                                  120                                  125  
 Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe  
       130                                  135                                  140  
 Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His  
       145                                  150                                  155                                  160  
 Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg  
                   165                                  170                                  175  
 Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr  
           180                                  185                                  190  
 Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr  
       195                                  200                                  205  
 Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys  
       210                                  215                                  220  
 Ser Ile Glu Trp Lys Ile Asn Ile  
       225                                  230

<210> 535  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 535  
 Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Phe Pro Gln  
       1                                  5                                  10                                  15  
 Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp  
           20                                  25                                  30  
 Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro  
           35                                  40                                  45

Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
 50 55

<210> 536  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 536  
 Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala  
 1 5 10 15  
 Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys  
 20 25 30  
 Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val  
 35 40 45

<210> 537  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 537  
 Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu  
 1 5 10 15  
 Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu  
 20 25 30  
 Leu Cys Gly Trp Lys Val Lys Cys Asp Asn Asp Val Cys Glu Met Pro  
 35 40 45  
 Ala Gln Cys Leu Glu Val Leu Lys Asn Tyr Leu Leu Pro Phe Leu Phe  
 50 55 60  
 Leu Pro Thr Thr Tyr Pro Leu Pro Pro Gly Ala Thr Cys  
 65 70 75

<210> 538  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 538  
 Met Ala Ser Pro Gly Trp His Leu Ser Cys Arg Pro Thr Gly Leu Val  
 1 5 10 15  
 Ser Ile Phe Leu Leu Cys Ala Pro Ala Tyr Leu His Ser Phe Val Met  
 20 25 30

Thr Ser Ile Thr Leu Ile Ser Thr Lys Ile Cys Ser Pro Thr Lys Leu  
 35 40 45  
 Arg His Arg Thr His Phe Leu Tyr Gly Ser Ile Met Glu Leu Tyr Pro  
 50 55 60  
 Thr Leu Thr Phe Pro Met Thr Thr Asp Val Glu Asn Leu Asn Leu Asp  
 65 70 75 80  
 Ser Ser Arg

<210> 539  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 539  
 Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Phe Leu Leu  
 1 5 10 15  
 Thr Val Arg Thr Arg Ser Phe Xaa Ser Val Gly Val Cys Trp Arg Ser  
 20 25 30  
 Thr Pro Asp Pro Leu Cys Leu Gly Ile Ser Ser Arg Ser Cys Arg Thr  
 35 40 45  
 Ala Asp Ile Gly Glu Gln Gln Met Leu Leu Pro Asp Arg Ser Ser Gly  
 50 55 60  
 Ser Phe Val Ser Glu Tyr Pro Ala Met  
 65 70

<210> 540  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 540  
 Met Asp His Ser Pro Thr Thr Gly Val Val Thr Val Ile Val Ile Leu  
   1                  5                  10                  15  
 Ile Ala Ile Ala Ala Leu Gly Ala Phe Asp Pro Gly Leu Leu Val Leu  
                   20                  25                  30  
 Pro Ala Ala Ala Ala His Gln Pro Val Arg Gly Arg Gly Glu His Arg  
           35                  40                  45  
 Gly Gly Trp Gly Asp Gln Gly Thr Leu Pro Ala Gly Ala Val Phe Gly  
   50                  55                  60  
 Gln Xaa Thr Val Arg Gly Glu Lys Gly Gln Ala Asp Xaa Ser Gln Thr  
   65                  70                  75                  80  
 Xaa Arg Lys Xaa Thr Xaa Xaa Pro Gly Cys Lys Gly Xaa Leu Val Pro  
           85                  90                  95  
 Val Cys Lys Pro Ala Lys Xaa Gly Leu Gly Gly Ala Lys Xaa Ile Arg  
   100                  105                  110

Met Arg Cys Cys Leu Arg Gly Arg Ala Asp Thr Cys Trp His Gly Leu  
115 120 125  
Cys Gly Phe Arg Pro Ser His Ala Leu Met Pro Gly Asp Leu Ala Val  
130 135 140  
Leu Gly Phe Pro Ser Ala Ser Arg  
145 150

<210> 541  
<211> 88  
<212> PRT  
<213> Homo sapiens

<400> 541  
Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His  
1 5 10 15  
Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val Ala Arg  
20 25 30  
Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val  
35 40 45  
Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala  
50 55 60  
Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His  
65 70 75 80  
Asp Ser Asn Gly Ile Leu Leu Leu  
85

<210> 542  
<211> 340  
<212> PRT  
<213> Homo sapiens

<400> 542  
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala  
1 5 10 15  
Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu  
20 25 30  
Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val  
35 40 45  
Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser  
50 55 60  
Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala  
65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp  
                     85                    90                    95  
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser  
                     100                    105                    110  
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val  
                     115                    120                    125  
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile  
                     130                    135                    140  
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu  
                     145                    150                    155                    160  
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu  
                     165                    170                    175  
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln  
                     180                    185                    190  
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg  
                     195                    200                    205  
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr  
                     210                    215                    220  
 Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala  
                     225                    230                    235                    240  
 Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg  
                     245                    250                    255  
 Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile  
                     260                    265                    270  
 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro  
                     275                    280                    285  
 Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His  
                     290                    295                    300  
 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp  
                     305                    310                    315                    320  
 Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser  
                     325                    330                    335  
 Ile Lys Glu Lys  
                     340

<210> 543  
 <211> 64  
 <212> PRT

<213> Homo sapiens

<400> 543

```
Met Val Arg His Ile Arg Glu Arg Arg Arg Gln Pro Leu Ala Phe Gln
  1              5              10              15

Arg Val Leu Leu Ser Leu Cys Leu Leu Glu Gly Ile Trp His Ser Pro
      20              25              30

Ala Ala Ala Ala Gly Gly Gly Ser His Cys Ser Ser Trp Pro Ser Leu
      35              40              45

Tyr Thr Thr Phe Gln Arg Val Ser Leu Leu Glu Leu Asp Leu Gly Leu
  50              55              60
```

<210> 544

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 544

```
Met Cys Leu Pro Leu Leu His Cys Thr Gly Ala Leu Trp Gly Lys Xaa
  1              5              10              15

Val Leu Leu Phe Leu Tyr Cys Leu Ala Gln Ser Phe Ala Tyr Ser Arg
      20              25              30

His Gln Thr Val Gly Leu Val Val His Asp Tyr Trp
      35              40
```

<210> 545

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 545

```
Met Ala Gly Gly Val Arg Pro Leu Arg Gly Leu Arg Ala Leu Cys Arg
  1              5              10              15

Val Leu Leu Phe Leu Ser Gln Phe Cys Ile Leu Ser Gly Gly Glu Ser
```

	20		25		30										
Thr	Glu	Ile	Pro	Pro	Tyr	Val	Met	Lys	Cys	Pro	Ser	Asn	Gly	Leu	Cys
	35						40					45			
Ser	Arg	Leu	Pro	Ala	Asp	Cys	Ile	Asp	Cys	Thr	Thr	Asn	Phe	Ser	Cys
	50					55					60				
Thr	Tyr	Gly	Lys	Pro	Val	Thr	Phe	Asp	Cys	Ala	Val	Lys	Pro	Ser	Val
65					70					75					80
Thr	Cys	Val	Asp	Gln	Asp	Phe	Lys	Ser	Gln	Lys	Asn	Phe	Ile	Ile	Asn
				85					90					95	
Met	Thr	Cys	Arg	Phe	Cys	Trp	Gln	Leu	Pro	Glu	Thr	Asp	Tyr	Glu	Cys
			100					105					110		
Thr	Asn	Ser	Thr	Ser	Cys	Met	Thr	Val	Ser	Cys	Pro	Arg	Gln	Arg	Tyr
	115						120					125			
Pro	Ala	Asn	Cys	Thr	Val	Arg	Asp	His	Val	His	Cys	Leu	Gly	Asn	Arg
	130					135					140				
Thr	Phe	Pro	Lys	Met	Leu	Tyr	Cys	Asn	Trp	Thr	Gly	Gly	Tyr	Lys	Trp
145					150					155					160
Ser	Thr	Ala	Leu	Ala	Leu	Ser	Ile	Thr	Leu	Gly	Gly	Phe	Gly	Ala	Asp
			165						170					175	
Arg	Phe	Tyr	Leu	Gly	Gln	Trp	Xaa	Glu	Gly	Leu	Gly	Lys	Leu	Phe	Ser
			180					185					190		
Phe	Gly	Gly	Leu	Gly	Ile	Trp	Thr	Leu	Ile	Asp	Val	Leu	Leu	Ile	Gly
	195						200					205			
Val	Gly	Tyr	Val	Gly	Pro	Ala	Asp	Gly	Ser	Leu	Tyr	Ile			
	210					215					220				

<210> 546  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Met Trp Leu Thr Gln Pro Glu Ser Leu Ser Leu Cys Val Ser Val Ser  
 1 5 10 15  
 Gln Asp Trp Ala His Ile Leu Ala Leu Ser Ile Thr Met Leu Trp Asp  
 20 25 30  
 Phe Arg Glu Phe Pro His Leu  
 35

<210> 547  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 547  
 Met Glu Asn Val Cys Gln Ala Gly Phe Pro Ser Leu Leu His Leu Asn  
   1                  5                  10                  15  
 Ile Thr Leu Thr Leu Leu Gly Leu Ala Gln Cys Tyr Leu Ala Asn Phe  
                   20                  25                  30  
 Ser Ser Cys Arg Glu Gly Ser Glu His Tyr Leu Phe Phe Phe Phe  
           35                  40                  45  
 Leu Leu Glu Pro Gly Leu His Lys Ala Met Ala Lys Phe Ser  
   50                  55                  60

<210> 548  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 548  
 Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp  
   1                  5                  10                  15  
 Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His  
           20                  25                  30  
 Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg  
           35                  40                  45  
 Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile  
   50                  55                  60

<210> 549  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 549  
 Met Lys Asn Ser Thr Ser Leu Leu Tyr Lys Leu Phe Ser Ser Leu Ser  
   1                  5                  10                  15  
 Val Phe Ile Phe Lys Phe Leu Leu Leu Phe Tyr Thr Leu His Ile Ala  
           20                  25                  30  
 Leu Gly Val Lys Ile Gln Tyr Lys Pro Leu Ala His Phe Ile Asp His  
   35                  40                  45

Ser Cys Ile Gln Gln Val Ser Gln Val Gln Trp Ser Ile Pro  
50 55 60

<210> 550  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 550  
Met Ala Pro Arg Asn Gln Gly Ser Phe Ser Phe Gly Asn Phe Met Leu  
1 5 10 15  
Phe Leu Val Leu Ile Glu Arg Arg Tyr Leu Pro Phe Leu Ser Pro Ile  
20 25 30  
Leu Phe Cys Cys Ser Thr His Asn Arg Ser Ala Val Thr Ala Thr Asn  
35 40 45  
Leu

<210> 551  
<211> 957  
<212> PRT  
<213> Homo sapiens

<400> 551  
Met Ala Leu Leu His Trp Gly Ala Leu TrpArg Gln Leu Ala Ser Pro  
1 5 10 15  
Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg Trp Lys Leu  
20 25 30  
Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg LeuLys Leu Val Pro Asn  
35 40 45  
His His Phe Asp Pro His Leu Glu Ala Ser Ala Leu Arg Asp Asn Leu  
50 55 60  
Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala  
65 70 75 80  
Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Leu Gln Glu  
85 90 95  
Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro MetGlu  
100 105 110  
Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Ala Glu  
115 120 125  
Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val

130	135	140
Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu 145 150 155 160		
Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu 165 170 175		
Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu 180 185 190		
Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys 195 200 205		
Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln 210 215 220		
Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser 225 230 235 240		
Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg 245 250 255		
Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val 260 265 270		
Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile 275 280 285		
Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp 290 295 300		
Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala 305 310 315 320		
Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His 325 330 335		
Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly 340 345 350		
Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly 355 360 365		
Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val 370 375 380		
Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser 385 390 395 400		
Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys 405 410 415		
Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln 420 425 430		
Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly		

435		440		445
Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln	450	455	460	
Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His	465	470	475	480
Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala	485	490	495	
Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val	500	505	510	
Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly	515	520	525	
Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro	530	535	540	
His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg	545	550	555	560
Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys	565	570	575	
Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala	580	585	590	
Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro	595	600	605	
Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser	610	615	620	
Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys	625	630	635	640
Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro	645	650	655	
Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro	660	665	670	
Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg	675	680	685	
Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His	690	695	700	
Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu	705	710	715	720
Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His	725	730	735	
Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu				

740					745					750					
Tyr	Gly	His	Gly	Ala	Ala	Val	Ser	Cys	Val	Ala	Ile	Ser	Thr	Glu	Leu
		755					760					765			
Asp	Met	Ala	Val	Ser	Gly	Ser	Glu	Asp	Gly	Thr	Val	Ile	Ile	His	Thr
	770					775					780				
Val	Arg	Arg	Gly	Gln	Phe	Val	Ala	Ala	Leu	Arg	Pro	Leu	Gly	Ala	Thr
785						790					795				800
Phe	Pro	Gly	Pro	Ile	Phe	His	Leu	Ala	Leu	Gly	Ser	Glu	Gly	Gln	Ile
				805							810				815
Val	Val	Gln	Ser	Ser	Ala	Trp	Glu	Arg	Pro	Gly	Ala	Gln	Val	Thr	Tyr
			820					825					830		
Ser	Leu	His	Leu	Tyr	Ser	Val	Asn	Gly	Lys	Leu	Arg	Ala	Ser	Leu	Pro
		835					840					845			
Leu	Ala	Glu	Gln	Pro	Thr	Ala	Leu	Thr	Val	Thr	Glu	Asp	Phe	Val	Leu
	850					855					860				
Leu	Gly	Thr	Ala	Gln	Cys	Ala	Leu	His	Ile	Leu	Gln	Leu	Asn	Thr	Leu
865						870					875				880
Leu	Pro	Ala	Ala	Pro	Pro	Leu	Pro	Met	Lys	Val	Ala	Ile	Arg	Ser	Val
				885					890					895	
Ala	Val	Thr	Lys	Glu	Arg	Ser	His	Val	Leu	Val	Gly	Leu	Glu	Asp	Gly
			900					905					910		
Lys	Leu	Ile	Val	Val	Val	Ala	Gly	Gln	Pro	Ser	Glu	Val	Arg	Ser	Ser
	915						920					925			
Gln	Phe	Ala	Arg	Lys	Leu	Trp	Arg	Ser	Ser	Arg	Arg	Ile	Ser	Gln	Val
	930					935					940				
Ser	Ser	Gly	Glu	Thr	Glu	Tyr	Asn	Pro	Thr	Glu	Ala	Arg			
945						950					955				

<210> 552  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 552

Met	Ala	Leu	Gly	Ile	Gln	Lys	Arg	Phe	Ser	Pro	Glu	Val	Leu	Gly	Leu
1				5					10					15	
Cys	Ala	Ser	Thr	Ala	Leu	Val	Trp	Val	Val	Met	Glu	Val	Leu	Ala	Leu
			20					25					30		
Leu	Leu	Gly	Leu	Tyr	Leu	Ala	Thr	Val	Arg	Ser	Asp	Leu	Ser	Thr	Phe
		35					40					45			

His Leu Leu Ala Tyr Ser Gly Tyr Lys Tyr Val Gly Met Ile Leu Ser  
     50                    55                    60  
 Val Leu Thr Gly Leu Leu Phe Gly Ser Asp Gly Tyr Tyr Val Ala Leu  
     65                    70                    75                    80  
 Ala Trp Thr Ser Ser Ala Leu Met Tyr Phe Ile Val Arg Ser Leu Arg  
                     85                    90                    95  
 Thr Ala Ala Leu Gly Pro Asp Ser Met Gly Gly Pro Val Pro Arg Gln  
                     100                    105                    110  
 Arg Leu Gln Leu Tyr Leu Thr Leu Gly Ala Ala Ala Phe Gln Pro Leu  
                     115                    120                    125  
 Ile Ile Tyr Trp Leu Thr Phe His Leu Val Arg  
     130                    135

<210> 553  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 553  
 Met Arg Lys Glu Glu Gly Ile Ala His Leu Ser Ile Ala Phe Phe Val  
     1                    5                    10                    15  
 Gln Val Leu Cys Leu Tyr Gln Leu Leu Pro Val Ile Leu Pro Gln Phe  
                     20                    25                    30  
 Asn Leu Gly Ser Gly Lys Asn Met Asn Arg  
                     35                    40

<210> 554  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 554  
 Met Cys Ser His Ser Thr Leu Ile His Leu Tyr Leu Val Leu Pro Phe  
   1                  5                  10                  15  
 Phe Phe Leu Phe Leu Pro Ser Ser Phe Pro Phe Pro Ser Xaa Ser Xaa  
                   20                  25                  30  
 Ser Ser Ile Leu Pro Ser Leu Arg Leu Pro Pro Phe Phe Pro Pro Ser  
           35                  40                  45  
 Leu Phe Leu His Ser Ser Leu Pro Pro Ser Leu Ser His Pro Leu Gly  
   50                  55                  60  
 Leu Ser Ile Thr Ser Ser Arg Gln Ser Phe Leu Asp Tyr His His Leu  
   65                  70                  75                  80  
 Cys Thr Lys His Leu Ser Xaa Thr Leu Cys Gly Leu Ile Tyr His Cys  
                   85                  90                  95  
 Leu Asn Ile Phe Xaa Thr Arg Ala Val Met Trp His Met Gln Val Ser  
           100                  105                  110  
 Phe Leu Xaa Ile His Trp Leu Leu Pro  
   115                  120

<210> 555  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 555  
 Met Arg Ile His Phe Lys Ile Leu Val Leu Val Ile Tyr Phe Ile Leu  
   1                  5                  10                  15  
 Leu Gly Ser Phe Ser Asp Arg Cys Ser Leu Leu Asp Cys Lys Ser Arg  
           20                  25                  30  
 Ile Gln Arg Ile Phe Ile Cys Asn Ile Leu Asn Leu Ser Leu Val Ser  
   35                  40                  45  
 Cys His Leu Cys Arg Tyr Ser Phe Asp Cys Leu Thr Arg Gly Lys Cys  
   50                  55                  60  
 Phe Pro Leu Ser Phe Pro Ala

65

70

&lt;210&gt; 556

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 556

Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala  
 1 5 10 15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp  
 20 25 30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu  
 35 40 45

Gly Val Leu Leu Leu Leu Ala Ala Gly Arg Pro Gly Gly Ala Ala Val  
 50 55 60

Leu Leu Ser Leu  
 65

&lt;210&gt; 557

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 557

Met Ser Pro Phe His Leu Leu Gly Leu Lys Val Phe Leu Thr Trp Ala  
 1 5 10 15

Leu Thr Leu Ala Gln Ile Cys Leu Tyr Phe Phe Glu Val Gln Pro Leu  
 20 25 30

Gly Leu Leu Ala Leu Asn Phe Phe Cys Thr Ala Thr Ala Gly Leu Lys  
 35 40 45

Glu Leu Cys Met His Pro Pro Ser Leu Ala Phe Thr Pro Glu Phe His  
 50 55 60

Thr Ser Leu Ser Pro Leu Ala Ile Pro Ser Phe Cys Gly Thr Ser Val  
 65 70 75 80

Ser Leu Ser Asn Ser His Thr Ile Pro Leu Ser Leu Tyr Leu Pro Phe  
 85 90 95

Pro Ser Lys Ser Arg Met Pro Asp Thr Leu His Leu Leu Val His Ser  
 100 105 110

Leu Pro Leu Val His Ser Gln Val Leu Pro Val Lys Asp Val Thr Ile  
 115 120 125

Glu Trp Pro Leu Cys Gln Arg Cys Leu Gly Ser Thr Cys His Gln  
 130 135 140

<210> 558  
 <211> 233  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 558  
 Met His Arg Gly Lys Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser  
 1 5 10 15  
 Tyr Leu Ile Val Leu Met Ile Leu Leu Ala Val Val Ile Cys Thr Val  
 20 25 30  
 Ser Ala Ile Met Cys Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly  
 35 40 45  
 Pro Arg Lys Ser Met Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe  
 50 55 60  
 Phe Pro Glu Met Val Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp  
 65 70 75 80  
 Gly Val Gln Cys Asp Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val  
 85 90 95  
 Val Val Ser Trp Ile Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile  
 100 105 110  
 Val Phe Asp Pro Leu Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly  
 115 120 125  
 Pro Ser His Leu Asp Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu  
 130 135 140  
 Lys Thr Ala Ala Thr Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys  
 145 150 155 160  
 Cys Cys Ile Gly Lys Asp Asp His Thr Arg Val Ala Xaa Ser Ser Thr  
 165 170 175  
 Ala Glu Leu Phe Ser Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser  
 180 185 190  
 Asp Ile Ala Ala Gly Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile  
 195 200 205  
 Arg Asn Asn Gln Asp Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala  
 210 215 220

Pro Arg Lys Leu Ile Trp Met Gln Asn  
 225 230

<210> 559  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 559  
 Met Phe Val Glu Arg Trp Leu Pro Cys Phe Leu Val Val Ala Val Val  
 1 5 10 15  
 Val Trp Val Phe Ala Cys Gly Pro Val Glu Asp Lys Glu Asp Ser Phe  
 20 25 30  
 Gly Trp Ser Ser Tyr Phe Leu Ala Ser Gly Leu Pro Pro Leu Leu Phe  
 35 40 45  
 Glu Ala Ser Gln Thr Arg Thr Val Arg Ala Gly Arg Leu Gly Val Phe  
 50 55 60  
 Val Cys  
 65

<210> 560  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 560  
 Met Gly Ser Trp Cys Ile Cys Thr Leu Leu Leu Leu Thr Asp Gly  
 1 5 10 15  
 Gln Gln Gly Phe Tyr Pro Gln Pro Phe Gln Ala Ala Pro Gly Arg Gln  
 20 25 30  
 Gln Leu Trp Gly Gly Thr Asn Pro Trp Ala Val Leu Ile Pro Glu Ser  
 35 40 45  
 Phe Leu Pro Tyr Thr Leu Thr Val Asn Tyr Ser Pro Ser Cys Asn Phe  
 50 55 60  
 Glu Phe Tyr Leu Pro Lys Met Arg Leu Ala Tyr Ile Cys Met Ser His  
 65 70 75 80  
 Ser His Cys Pro Tyr Leu Gly Arg Asp Ile Ile Ile Thr Leu Leu Asn  
 85 90 95  
 Tyr Cys Ser Ser Phe Leu Ala Glu Leu Leu Ala His Leu Val Tyr Ile  
 100 105 110  
 Ala

<210> 561  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 561  
 Met Leu Ile Ala Leu Phe Cys Ile Leu Phe Gln Ile Leu Phe Ser Ile  
   1                  5                  10                  15  
 Pro Thr Arg Ile Phe Tyr Ile Phe Leu Ile Asn Lys Arg Val His Ile  
           20                  25                  30  
 Phe Thr Thr Tyr Leu Met Ser Glu Gln Lys Asn His Asp Trp Val Arg  
           35                  40                  45  
 Arg Thr Xaa Lys Leu His Arg Val Trp Leu Ile Ser Gly Lys Met Leu  
   50                  55                  60  
 Leu Val Ala Asp Ile Lys Ala Leu Ile Arg Trp Leu Trp Gly Pro Asn  
   65                  70                  75                  80  
 Pro Glu

<210> 562  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 562  
 Met Leu Arg Cys Ser Phe Ser Ser Phe Leu Leu Cys His Thr Ile Leu

1                      5                      10                      15  
 Leu Phe Leu Gly Ser Ser Ala His Leu Leu Val Glu Xaa Xaa Val Trp  
                     20                      25                      30  
 Gly Leu Tyr Glu Tyr Arg Ile Gly Asp Met Val Asp Gln Lys Ala Thr  
                     35                      40                      45  
 Phe Cys Val Gln Lys Gln Glu Cys Leu Phe Pro Leu Gly Ser Trp Val  
                     50                      55                      60  
 Xaa Arg Val Glu Gly Gly Ala Phe Ala Arg Glu Pro Pro Ser Ser Thr  
                     65                      70                      75                      80  
 Gln Tyr Phe Pro Val Ser Cys Leu Tyr Gln  
                     85                      90

<210> 563  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 563  
 Met Gly Cys Thr Ala Leu Leu Leu Leu Phe His Leu Cys Val Pro Cys  
                     1                      5                      10                      15  
 Glu Pro Tyr Gly Thr His Glu Lys Glu Leu Val Pro Gly Leu Tyr Phe  
                     20                      25                      30  
 Leu Val Tyr Arg  
                     35

<210> 564  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 564  
 Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser  
                     1                      5                      10                      15  
 Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser  
                     20                      25                      30  
 Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Phe Thr  
                     35                      40                      45

<210> 565  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 565

Met Ala Ile Ser Cys Trp Ala Ser Leu Thr Val Lys Ser Leu Tyr Cys  
1 5 10 15  
Leu Leu Gly Phe Trp Trp Glu Ala Val Ile Ser Ser Asn Glu Leu Pro  
20 25 30  
Leu Pro Trp Ile Cys Gln Glu Ala Asp Gly Asn Leu Ala Asn Ser Gly  
35 40 45  
Arg Tyr Gln Ala Pro Ser Ser Ala Pro Val Thr Leu Phe Tyr Thr Cys  
50 55 60  
Gly Ser Thr Thr Val Cys Ser Glu Gly Gln Ser Leu Pro Leu Leu Cys  
65 70 75 80  
Phe Ser

<210> 566

<211> 57

<212> PRT

<213> Homo sapiens

<400> 566

Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro  
1 5 10 15  
Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu  
20 25 30  
Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr  
35 40 45  
Arg Pro Ile Pro Ser Phe Leu Lys Ile  
50 55

<210> 567

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring amino acids

<400> 567

Met Arg Met Arg Val Ala Val Ala Pro Arg Pro His Gln His Leu Val  
1 5 10 15  
Val Ser Val Ser Trp Ile Leu Ala Ile Leu Ile Ser Val Ser Gly Tyr



<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 569  
 Met Met Gly Asn Asp Leu Leu His Leu Val Phe LeuGln Leu Ser Leu  
   1                  5                  10                  15  
 Gly Val Ala Ser Gly Gly Trp Ile Leu Trp Pro Leu Arg Arg Leu Gly  
                   20                  25                  30  
 Gly Ala His Thr Ser Lys Asp Xaa Asn Lys Asn Gly HisXaa Val His  
                   35                  40                  45  
 Cys Leu Val Ile Thr Asn Glu Pro Leu Val Ser Xaa Lys Lys Ile Gly  
   50                  55                  60  
 Leu Ser Ser Pro His Thr Cys Pro Ser Thr Leu Gln Gln Phe  
   65                  70                  75  
  
 <210> 570  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 570  
 Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser  
   1                  5                  10                  15  
 Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys  
                   20                  25                  30  
 Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile  
   35                  40                  45  
 Asn Arg Thr Ala Asn  
   50  
  
 <210> 571  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 571  
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser  
   1                  5                  10                  15  
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly  
                   20                  25                  30  
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu  
   35                  40                  45

Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu  
50 55 60  
Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu  
65 70 75 80

<210> 572  
<211> 320  
<212> PRT  
<213> Homo sapiens

<400> 572  
Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro  
1 5 10 15  
Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly  
20 25 30  
Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn  
35 40 45  
Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr  
50 55 60  
Ser Leu Ala Asp Phe Ser Trp AsnAsn Ile Thr Asp Ser Leu Asp Pro  
65 70 75 80  
Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr  
85 90 95  
Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser  
100 105 110  
Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp  
115 120 125  
Thr Cys Gln Leu Glu Val Ala Leu Ile GlyAla Ser Pro Arg Gly Asn  
130 135 140  
Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp  
145 150 155 160  
Cys Pro Ser Met Gln Glu Gln His Ser Ile Asp AspGlu Tyr Ala Pro  
165 170 175  
Ala Val Phe Gln Leu Asp Gln Leu Leu Trp Gly Ser Leu Pro Ser Gly  
180 185 190  
Phe Ala Gln Trp Arg Pro Val Ala Tyr Ser Gln Lys ProGly Gly Arg  
195 200 205

Glu Ser Ala Leu Pro Cys Gln Ala Ser Pro Leu His Pro Ala Leu Ala  
 210 215 220  
 Tyr Ser Leu Pro Gln Ser Pro Ile Val Arg Ala Phe Phe Gly Ser Gln  
 225 230 235 240  
 Asn Asn Phe Cys Ala Phe Asn Leu Thr Phe Gly Ala Ser Thr Gly Pro  
 245 250 255  
 Gly Tyr Trp Asp Gln His Tyr Leu Ser Trp Ser Met Leu Leu Gly Val  
 260 265 270  
 Gly Phe Pro Pro Val Asp Gly Leu Ser Pro Leu Val Leu Gly Ile Met  
 275 280 285  
 Ala Val Ala Leu Gly Ala Pro Gly Leu Met Leu Leu Gly Gly Gly Leu  
 290 295 300  
 Val Leu Leu Leu His His Lys Lys Tyr Ser Glu Tyr Gln Ser Ile Asn  
 305 310 315 320

<210> 573  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 573  
 Met Leu Ala Leu Ser Ser Ser Phe Leu Val Leu Ser Tyr Leu Leu Thr  
 1 5 10 15  
 Arg Trp Cys Gly Ser Val Gly Phe Ile Leu Ala Asn Cys Phe Asn Met  
 20 25 30  
 Gly Ile Arg Ile Thr Gln Ser Leu Cys Phe Ile His Arg Tyr Tyr Arg  
 35 40 45  
 Arg Ala Pro Thr Gly Pro Trp Leu Ala Cys Thr Tyr Arg Gln Ser Cys  
 50 55 60  
 Ser Gly His Leu Pro Ser Val Val Gly Leu Leu Leu Phe Arg Arg Tyr  
 65 70 75 80  
 Ser Ser Ala Val Ser Arg Ala Gly Gln Pro Asp Trp His Thr Leu Leu  
 85 90 95  
 Trp Gly Pro Ser Val Trp Glu Gln Leu Ser Gly Gln His Ser Ser Gln  
 100 105 110  
 Arg Pro Ser  
 115

<210> 574  
 <211> 402  
 <212> PRT  
 <213> Homo sapiens

<400> 574  
 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly  
   1                  5                  10                  15  
 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro  
                   20                  25                  30  
 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu  
           35                  40                  45  
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val  
   50                  55                  60  
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu  
   65                  70                  75                  80  
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr  
                   85                  90                  95  
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val  
           100                  105                  110  
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser  
           115                  120                  125  
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val  
   130                  135                  140  
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr  
  145                  150                  155                  160  
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp  
           165                  170                  175  
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp  
           180                  185                  190  
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu  
           195                  200                  205  
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His  
   210                  215                  220  
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr  
  225                  230                  235                  240  
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met  
           245                  250                  255  
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile  
           260                  265                  270

Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro  
 275 280 285  
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr  
 290 295 300  
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu  
 305 310 315 320  
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys  
 325 330 335  
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met  
 340 345 350  
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser  
 355 360 365  
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp  
 370 375 380  
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg  
 385 390 395 400  
 Pro Leu

<210> 575  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (198)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (213)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 575  
 Met Arg Ala Leu Leu Ala Leu Cys Leu Leu Leu Gly Trp Leu Arg Trp

1	5	10	15
Gly Pro Ala Gly Ala Gln Gln Ser Gly Glu Tyr Cys His Gly Trp Val	20	25	30
Asp Val Gln Gly Asn Tyr His Glu Gly Phe Gln Cys Pro Glu Asp Phe	35	40	45
Asp Thr Leu Asp Ala Thr Ile Cys Cys Gly Ser Cys Ala Leu Arg Tyr	50	55	60
Cys Cys Ala Ala Ala Asp Ala Arg Leu Glu Gln Gly Gly Cys Thr Asn	65	70	75
Asp Arg Arg Glu Leu Glu His Pro Gly Ile Thr Ala Gln Pro Val Tyr	85	90	95
Val Pro Phe Leu Ile Val Gly Ser Ile Phe Ile Ala Phe Ile Ile Leu	100	105	110
Gly Ser Val Val Ala Ile Tyr Cys Cys Thr Cys Leu Arg Pro Lys Glu	115	120	125
Pro Ser Gln Gln Pro Ile Arg Phe Ser Leu Arg Ser Tyr Gln Thr Glu	130	135	140
Thr Leu Pro Met Ile Leu Thr Ser Thr Ser Pro Arg Ala Pro Ser Arg	145	150	155
Gln Ser Ser Thr Ala Thr Ser Xaa Ser Phe Thr Gly Gly Xaa Ile Arg	165	170	175
Arg Phe Phe Ser Ala Ile Trp Phe Pro Gly Val Thr Pro Val Phe Arg	180	185	190
Leu Pro Pro Ser Ala Xaa Ala Pro Thr Gly Trp Glu Glu Leu Ser Arg	195	200	205
Leu Ser Val Pro Xaa Asp Thr Pro Arg Pro	210	215	

<210> 576

<211> 76

<212> PRT

<213> Homo sapiens

<400> 576

Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val	5	10	15
Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe	20	25	30
Ala Ser Pro Pro Thr Thr Phe Met Asp Ile Gln Cys Cys Phe Ala Leu	35	40	45

Gln Leu Glu Arg Arg Asp Gly Gln Leu Val Thr Leu Ser His Ile Ala  
 50 55 60

Thr Phe Ile Cys Ser Gly Lys Lys Leu Asp Arg Trp  
 65 70 75

<210> 577  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 577  
 Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala  
 1 5 10 15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala  
 20 25 30

Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe  
 35 40 45

Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala  
 50 55 60

Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro  
 65 70 75 80

Arg Trp Ser Leu Gln Leu Leu Pro Arg  
 85

<210> 578  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 578  
 Met Met Thr Phe Phe Gly Ser His Ile Leu Leu Phe Leu Phe Cys Pro  
 1 5 10 15

Leu Lys Ala Gly His Arg His Leu Val Ser Ser Ser Phe Leu Thr Val  
 20 25 30

Ala Val Ser Ile Ser Lys Gly Pro Phe Phe His Ser Thr Ala Gln Lys  
 35 40 45

Arg Lys Ser Arg Lys Gln Leu Pro Arg Pro Ala Phe Leu Val Pro Leu  
 50 55 60

Ser Ser Gln Asn Thr Gln Thr Arg Thr Lys His His Phe Ser Phe Leu  
 65 70 75 80

His Leu Ile Val Leu Gln Pro

<210> 579  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 579  
 Met Ala Val Pro Leu Phe Leu Tyr Ile Phe Thr Leu Leu Pro Leu Leu  
           1                  5                  10                  15  
 Pro Phe Leu Leu Ser Leu Cys Phe Ser Pro Leu Thr Val Lys Arg Ser  
                   20                  25                  30  
 Ser Ser Ser Glu Ser Lys Ser Ser Leu  
           35                  40

<210> 580  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 580  
 Ile Tyr Ser Ser Gly Tyr Phe Gln Ile Tyr Asn Met Leu Leu Leu Thr  
           1                  5                  10                  15  
 Ile Leu Ile Leu Leu Cys Asn Arg Thr Pro Glu Leu Ile Pro Gly Phe  
                   20                  25                  30  
 Tyr Ile Arg  
           35

<210> 581  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 581  
 Met His Met Pro Ala Ala Pro Val Thr Val Leu Lys Leu Leu Pro Phe  
           1                  5                  10                  15  
 Pro Cys Val Cys Gly Leu Gly Trp Val Pro Ile Gly Cys Val Ser Ile  
                   20                  25                  30  
 Pro Ser His Leu Lys Gly Asn Leu Cys Cys Ser  
           35                  40

<210> 582  
 <211> 484

<212> PRT

<213> Homo sapiens

<400> 582

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Met  Pro  Arg  His  Leu  Ser  Gly  Leu  Leu  Leu  Leu  Leu  Trp  Pro  Leu  Leu
  1              5              10              15

Leu  Leu  Leu  Pro  Pro  Thr  Pro  Ala  Ala  Pro  Gly  Pro  Leu  Ala  Arg  Pro
          20              25              30

Gly  Leu  Arg  Arg  Leu  Gly  Thr  Arg  Gly  Pro  Gly  Gly  Ser  Pro  Gly  Arg
          35              40              45

Arg  Pro  Val  Ser  Ala  Val  Pro  Thr  Arg  Ala  Pro  Tyr  Ser  Gly  Ala  Gly
          50              55              60

Gln  Pro  Gly  Gly  Ala  Arg  Gly  Ala  Gly  Val  Cys  Arg  Ser  Arg  Pro  Leu
          65              70              75              80

Asp  Leu  Val  Phe  Ile  Ile  Asp  Ser  Ser  Arg  Ser  Val  Arg  Pro  Leu  Glu
          85              90              95

Phe  Thr  Lys  Val  Lys  Thr  Phe  Val  Ser  Gln  Ile  Ile  Asp  Thr  Leu  Asp
          100             105             110

Ile  Gly  Ala  Ala  Asp  Thr  Arg  Val  Ala  Val  Val  Asn  Tyr  Ala  Ser  Thr
          115             120             125

Val  Lys  Ile  Glu  Phe  His  Leu  Gln  Thr  His  Ser  Asp  Lys  Gln  Ser  Leu
          130             135             140

Lys  Gln  Ala  Val  Ala  Arg  Ile  Thr  Pro  Leu  Ser  Thr  Gly  Thr  Met  Ser
          145             150             155             160

Gly  Leu  Ala  Ile  Gln  Thr  Ala  Met  Asp  Glu  Ala  Phe  Thr  Val  Glu  Ala
          165             170             175

Gly  Ala  Arg  Gly  Pro  Thr  Ser  Asn  Ile  Pro  Lys  Val  Ala  Ile  Ile  Val
          180             185             190

Thr  Asp  Gly  Arg  Pro  Gln  Asp  Gln  Val  Asn  Glu  Val  Ala  Ala  Arg  Ala
          195             200             205

Arg  Ala  Ser  Gly  Ile  Glu  Leu  Tyr  Ala  Val  Gly  Val  Asp  Arg  Ala  Asp
          210             215             220

Met  Glu  Ser  Leu  Lys  Met  Met  Ala  Ser  Glu  Pro  Leu  Asp  Glu  His  Val
          225             230             235             240

Phe  Tyr  Val  Glu  Thr  Tyr  Gly  Val  Ile  Glu  Lys  Leu  Ser  Ser  Arg  Phe
          245             250             255

Gln  Glu  Thr  Phe  Cys  Ala  Leu  Asp  Pro  Cys  Val  Leu  Gly  Thr  His  Arg
          260             265             270

Cys  Gln  His  Val  Cys  Val  Ser  Asp  Gly  Glu  Gly  Lys  His  His  Cys  Glu
          275             280             285
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Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala  
 290 295 300  
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val  
 305 310 315 320  
 Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr  
 325 330 335  
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe  
 340 345 350  
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser  
 355 360 365  
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys  
 370 375 380  
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln  
 385 390 395 400  
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe  
 405 410 415  
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu  
 420 425 430  
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala  
 435 440 445  
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn  
 450 455 460  
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly  
 465 470 475 480  
 Gln Ile His Arg

<210> 583  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
 Met Ser Arg Thr Ala Tyr Thr Val Gly Ala Leu Leu Leu Leu Leu Gly  
 1 5 10 15  
 Thr Leu Leu Pro Ala Ala Glu Gly Lys Lys Lys Gly Ser Gln Gly Ala  
 20 25 30  
 Ile Pro Pro Pro Asp Lys Ala Gln His Asn Asp Ser Glu Gln Thr Gln  
 35 40 45

Ser Pro Gln Gln Pro Gly Ser Arg Asn Arg Gly Arg Gly Gln Gly Ag  
 50 55 60  
 Gly Thr Ala Met Pro Gly Glu Glu Val Leu Glu Ser Ser Gln Glu Ala  
 65 70 75 80  
 Leu His Val Thr Glu Arg Lys Tyr Leu Lys Arg Asp Trp Cys Lys Thr  
 85 90 95  
 Gln Pro Leu Lys Gln Thr Ile His Glu Glu Gly Cys Asn Ser Arg Thr  
 100 105 110  
 Ile Ile Asn Arg Phe Cys Tyr Gly Gln Cys Asn Ser Phe Tyr Ile Pro  
 115 120 125  
 Arg His Ile Arg Lys Glu Glu Gly Ser Phe Gln Ser Cys Ser Phe Cys  
 130 135 140  
 Lys Pro Lys Lys Phe Thr Thr Met Met Val Thr Leu Asn Cys Pro Glu  
 145 150 155 160  
 Leu Gln Pro Pro Thr Lys Lys Lys Arg Val Thr Arg Val Lys Gln Cys  
 165 170 175  
 Arg Cys Ile Ser Ile Asp Leu Asp  
 180

<210> 584  
 <211> 164  
 <212> PRT  
 <213> Homo sapiens

<400> 584  
 Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile  
 1 5 10 15  
 Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val  
 20 25 30  
 Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg  
 35 40 45  
 Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val  
 50 55 60  
 Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys  
 65 70 75 80  
 Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly  
 85 90 95  
 Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg  
 100 105 110  
 Glu Asn His Arg Pro Lys Lys Pro Lys Ser Cys Thr Arg Leu Pro Gly

115                      120                      125  
 Leu Pro Lys Leu Glu Pro Ser Ser Thr Leu Lys Gly Gln Asp Ser Trp  
       130                      135                      140  
 Gln Met Gly His Gln Gln Asp Lys Thr Leu Trp Ser Trp Ala Ser Thr  
 145                      150                      155                      160  
 Gly Gly Ser Ser

<210> 585  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 585  
 Met Pro Leu Glu Glu Ser Phe Glu Ile Val Leu Lys Leu Val Pro Leu  
       1                      5                      10                      15  
 Leu Gly Leu Glu Leu Phe Phe Phe Leu Phe Ile Ile Asn Gly Tyr Ile  
                     20                      25                      30  
 Asn Val Tyr Cys Pro Ser Gln Tyr Phe Ile Tyr Ala Lys Asp Ser Leu  
                     35                      40                      45  
 Ala Gly Leu Ala Leu Ile Pro Gln  
       50                      55

<210> 586  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 586  
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
       1                      5                      10                      15  
 Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
                     20                      25                      30  
 Val Ser Gln Lys Arg Gly His Ile  
                     35                      40

<210> 587  
 <211> 967  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (40)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (169)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (293)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (297)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (547)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 587  
 Met Gln Arg Ala Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser  
   1                  5                  10                  15  
 Asp Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro  
                   20                  25                  30  
 Val Pro Thr Leu Leu Leu Leu Xaa Ala Ala Leu Leu Xaa Val Ser Asp  
                   35                  40                  45  
 Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu  
                   50                  55                  60  
 Leu Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala  
   65                  70                  75                  80  
 Phe Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu  
                   85                  90                  95  
 Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu  
                   100                  105                  110  
 Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr  
                   115                  120                  125  
 Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly  
   130                  135                  140  
 Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro

145		150		155		160									
Leu	Pro	Ala	Ala	Ser	Glu	Arg	Leu	Xaa	Thr	Ala	Ala	Pro	Gly	Glu	Lys
				165					170					175	
Pro	Pro	Ala	Pro	Leu	Gln	Phe	His	Leu	Leu	Arg	Arg	Asn	Arg	Gln	Gly
			180					185					190		
Asp	Val	Gly	Gly	Thr	Cys	Gly	Val	Val	Asp	Asp	Glu	Pro	Arg	Pro	Thr
		195					200					205			
Gly	Lys	Ala	Glu	Thr	Glu	Asp	Glu	Asp	Glu	Gly	Thr	Glu	Gly	Glu	Asp
	210					215					220				
Glu	Gly	Pro	Gln	Trp	Ser	Pro	Gln	Asp	Pro	Ala	Leu	Gln	Gly	Val	Gly
225					230					235					240
Gln	Pro	Thr	Gly	Thr	Gly	Ser	Ile	Arg	Lys	Lys	Arg	Phe	Val	Ser	Ser
				245					250					255	
His	Arg	Tyr	Val	Glu	Thr	Met	Leu	Val	Ala	Asp	Gln	Ser	Met	Ala	Glu
			260					265					270		
Phe	His	Gly	Ser	Gly	Leu	Lys	His	Tyr	Leu	Leu	Thr	Leu	Phe	Ser	Val
		275					280					285			
Ala	Ala	Arg	Leu	Xaa	Lys	His	Pro	Xaa	Ile	Arg	Asn	Ser	Val	Ser	Leu
		290				295						300			
Val	Val	Val	Lys	Ile	Leu	Val	Ile	His	Asp	Glu	Gln	Lys	Gly	Pro	Glu
305					310					315					320
Val	Thr	Ser	Asn	Ala	Ala	Leu	Thr	Leu	Arg	Asn	Phe	Cys	Asn	Trp	Gln
				325					330					335	
Lys	Gln	His	Asn	Pro	Pro	Ser	Asp	Arg	Asp	Ala	Glu	His	Tyr	Asp	Thr
			340					345					350		
Ala	Ile	Leu	Phe	Thr	Arg	Gln	Asp	Leu	Cys	Gly	Ser	Gln	Thr	Cys	Asp
		355					360					365			
Thr	Leu	Gly	Met	Ala	Asp	Val	Gly	Thr	Val	Cys	Asp	Pro	Ser	Arg	Ser
	370					375					380				
Cys	Ser	Val	Ile	Glu	Asp	Asp	Gly	Leu	Gln	Ala	Ala	Phe	Thr	Thr	Ala
385					390					395					400
His	Glu	Leu	Gly	His	Val	Phe	Asn	Met	Pro	His	Asp	Asp	Ala	Lys	Gln
				405					410					415	
Cys	Ala	Ser	Leu	Asn	Gly	Val	Asn	Gln	Asp	Ser	His	Met	Met	Ala	Ser
			420					425					430		
Met	Leu	Ser	Asn	Leu	Asp	His	Ser	Gln	Pro	Trp	Ser	Pro	Cys	Ser	Ala
			435				440					445			
Tyr	Met	Ile	Thr	Ser	Phe	Leu	Asp	Asn	Gly	His	Gly	Glu	Cys	Leu	Met

450		455		460
Asp Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr				
465		470		475
Ser Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser				
	485		490	495
Lys His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr				
	500		505	510
Gly Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp				
	515		520	525
Ala Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys				
	530		535	540
Cys Val Xaa Lys Thr Asp Arg Lys His Phe Asp Thr Pro Phe His Gly				
545		550		555
Ser Trp Gly Met Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly				
	565		570	575
Gly Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys				
	580		585	590
Asn Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys				
	595		600	605
Asn Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu				
	610		615	620
Gln Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly				
625		630		635
Pro Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp				
	645		650	655
Arg Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val				
	660		665	670
Leu Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr				
	675		680	685
Ser Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile				
	690		695	700
Ile Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn				
705		710		715
Gly Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro				
	725		730	735
Gly Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu				
	740		745	750
Val Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu				

755		760		765
Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr				
770		775		780
Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg				
785		790		800
Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro				
	805		810	815
Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu				
	820		825	830
Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser				
	835		840	845
Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Tyr Gly				
	850		855	860
Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu				
865		870		880
Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val				
	885		890	895
Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp				
	900		905	910
Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr				
	915		920	925
Lys Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser				
	930		935	940
His Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe				
945		950		955
				960
Cys Thr Met Ala Glu Cys Ser				
	965			

<210> 588  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 588
Met Cys Val Cys Leu Ile Cys Ser Ile Cys Gln Phe Leu Trp Cys Lys
1 5 10 15
Tyr Ser His Tyr Ser Cys Phe Gln Ala Asn Ile Val Ile Pro Gln Lys
20 25 30
Met Glu Leu Gly Arg His Asn Gln Asp
35 40

<210> 589  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 589

Met	Val	Phe	Leu	Lys	Phe	Phe	Cys	Met	Ser	Phe	Phe	Cys	His	Leu	Cys
1				5					10					15	
Gln	Gly	Tyr	Phe	Asp	Gly	Pro	Leu	Tyr	Pro	Glu	Met	Ser	Asn	Gly	Thr
			20					25					30		
Leu	His	His	Tyr	Phe	Val	Pro	Asp	Gly	Asp	Tyr	Glu	Glu	Asn	Asp	Asp
		35					40					45			
Pro	Glu	Lys	Cys	Gln	Leu	Leu	Phe	Arg	Val	Ser	Asp	His	Arg	Arg	Cys
	50					55					60				
Ser	Gln	Gly	Glu	Gly	Ser	Gln	Val	Gly	Ser	Leu	Leu	Ser	Leu	Thr	Leu
65					70					75					80
Arg	Glu	Glu	Phe	Thr	Val	Leu	Gly	His	Gln	Val	Glu	Asp	Ala	Gly	Arg
				85					90					95	
Val	Leu	Glu	Gly	Ile	Ser	Lys	Ser	Ile	Ser	Tyr	Asp	Leu	Asp	Gly	Glu
			100					105					110		
Glu	Ser	Tyr	Gly	Lys	Tyr	Leu	Arg	Arg	Glu	Ser	His	Gln	Ile	Gly	Asp
		115					120					125			
Ala	Tyr	Ser	Asn	Ser	Asp	Lys	Ser	Leu	Thr	Glu	Leu	Glu	Ser	Lys	Phe
	130					135					140				
Lys	Gln	Gly	Gln	Glu	Gln	Asp	Ser	Arg	Gln	Glu	Ser	Arg	Leu	Asn	Glu
145					150					155				160	
Asp	Phe	Leu	Gly	Met	Leu	Val	His	Thr	Arg	Ser	Leu	Leu	Lys	Glu	Thr
				165					170					175	
Leu	Asp	Ile	Ser	Val	Gly	Leu	Arg	Asp	Lys	Tyr	Glu	Leu	Leu	Ala	Leu
			180					185					190		
Thr	Ile	Arg	Ser	His	Gly	Thr	Arg	Leu	Gly	Arg	Leu	Lys	Asn	Asp	Tyr
		195					200					205			
Leu	Lys	Val													
		210													

<210> 590  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 590  
 Met Ser His His Ala Gly Leu Gly Gly Gly Ile Leu Phe Ser Leu Lys  
   1                  5                  10                  15  
 Ile Ser Phe Phe Ile Ala Leu Ala Val Val Gly Gly Ser Arg Gly Val  
                   20                  25                  30  
 Asn Asp Cys Gln Leu Gly Gly Cys Arg Val Gly Ser Cys Pro Arg Val  
           35                  40                  45  
 Xaa Val Arg Val Ala  
       50

<210> 591  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 591  
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
   1                  5                  10                  15  
 Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
                   20                  25                  30  
 Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
           35                  40                  45

<210> 592  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 592  
 Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala  
   1                  5                  10                  15  
 Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile  
           20                  25                  30  
 His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu  
           35                  40                  45  
 Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile

50		55		60											
Ser	Glu	Leu	Pro	Gln	Gln	Val	Gly	Glu	Val	Gly	Thr	Pro	Ser	Cys	Asn
65				70						75					80

<210> 593  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 593
Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe
1 5 10 15
Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Leu Ser
20 25 30
Phe Ser Lys Arg Gly Phe Ser Val Arg Ser Phe Gly Thr Gly Thr His
35 40 45
Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe
50 55 60
Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys
65 70 75 80
Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys
85 90 95
Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe
100 105 110
Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu
115 120 125
Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val
130 135 140
Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe
145 150 155 160
Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu
165 170 175
Asn Glu Ile Asp Glu Leu Leu Gh Glu Phe Glu Glu Lys Ser Gly Arg
180 185 190
Thr Phe Leu His Thr Val Cys Phe Tyr
195 200

<210> 594  
 <211> 420  
 <212> PRT  
 <213> Homo sapiens

<400> 594

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Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
  1           5           10           15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
  20           25           30

Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
  35           40           45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
  50           55           60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala TrpGlu Glu Glu Asn Leu
  65           70           75           80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
  85           90           95

Val Cys Ser Lys Ser Asp Phe Glu Cys HisArg Leu Leu Glu Leu Ser
  100          105          110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
  115          120          125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys LeuCys Cys Pro
  130          135          140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
  145          150          155          160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr ArgGly
  165          170          175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
  180          185          190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
  195          200          205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
  210          215          220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
  225          230          235          240

Leu Lys Cys Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys
  245          250          255

Gly Ala Asp Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg
  260          265          270
```

Asp Cys Ala Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg  
 275 280 285  
 Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu  
 290 295 300  
 Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln  
 305 310 315 320  
 Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr  
 325 330 335  
 Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Glu Ser Ala  
 340 345 350  
 Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln  
 355 360 365  
 Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys  
 370 375 380  
 Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met  
 385 390 395 400  
 Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe  
 405 410 415  
 Ile Lys Gly Arg  
 420

<210> 595  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 595  
 Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu  
 1 5 10 15  
 Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro  
 20 25 30  
 Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg  
 35 40 45  
 Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Arg Leu Leu Gly Gln  
 50 55 60  
 Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro  
 65 70 75 80  
 Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly  
 85 90 95  
 Leu Ala Arg Trp Met Val

100

<210> 596  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 596  
Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser  
1 5 10 15  
Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu  
20 25 30  
Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln  
35 40 45  
Arg Arg Ser His Cys  
50

<210> 597  
<211> 472  
<212> PRT  
<213> Homo sapiens

<400> 597  
Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser  
1 5 10 15  
Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr  
20 25 30  
Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys  
35 40 45  
Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr  
50 55 60  
Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly  
65 70 75 80  
Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Gln  
85 90 95  
Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His  
100 105 110  
Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His

115					120					125					
Lys	Ile	Ala	Ile	Leu	Gly	Leu	Gly	Ser	Ser	Ile	Gly	Thr	Pro	Pro	Glu
130						135					140				
Gly	Ile	Thr	Ala	Glu	Val	Leu	Val	Val	Thr	Ser	Phe	Asp	Glu	Leu	Gln
145					150					155					160
Arg	Arg	Ala	Ser	Glu	Ala	Arg	Gly	Lys	Ile	Val	Val	Tyr	Asn	Gln	Pro
				165					170					175	
Tyr	Ile	Asn	Tyr	Ser	Arg	Thr	Val	Gln	Tyr	Arg	Thr	Gln	Gly	Ala	Val
			180					185					190		
Glu	Ala	Ala	Lys	Val	Gly	Ala	Leu	Ala	Ser	Leu	Ile	Arg	Ser	Val	Ala
			195				200					205			
Ser	Phe	Ser	Ile	Tyr	Ser	Pro	His	Thr	Gly	Ile	Gln	Glu	Tyr	Gln	Asp
	210					215					220				
Gly	Val	Pro	Lys	Ile	Pro	Thr	Ala	Cys	Ile	Thr	Val	Glu	Asp	Ala	Glu
225					230					235					240
Met	Met	Ser	Arg	Met	Ala	Ser	His	Gly	Ile	Lys	Ile	Val	Ile	Gln	Leu
				245					250					255	
Lys	Met	Gly	Ala	Lys	Thr	Tyr	Pro	Asp	Thr	Asp	Ser	Phe	Asn	Thr	Val
			260					265					270		
Ala	Glu	Ile	Thr	Gly	Ser	Lys	Tyr	Pro	Glu	Gln	Val	Val	Leu	Val	Ser
			275				280					285			
Gly	His	Leu	Asp	Ser	Trp	Asp	Val	Gly	Gln	Gly	Ala	Met	Asp	Asp	Gly
	290					295					300				
Gly	Gly	Ala	Phe	Ile	Ser	Trp	Glu	Ala	Leu	Ser	Leu	Ile	Lys	Asp	Leu
305					310					315					320
Gly	Leu	Arg	Pro	Lys	Arg	Thr	Leu	Arg	Leu	Val	Leu	Trp	Thr	Ala	Glu
				325					330					335	
Glu	Gln	Gly	Gly	Val	Gly	Ala	Phe	Gln	Tyr	Tyr	Gln	Leu	His	Lys	Val
			340					345					350		
Asn	Ile	Ser	Asn	Tyr	Ser	Leu	Val	Met	Glu	Ser	Asp	Ala	Gly	Thr	Phe
		355					360					365			
Leu	Pro	Thr	Gly	Leu	Gln	Phe	Thr	Gly	Ser	Glu	Lys	Ala	Arg	Ala	Ile
	370					375					380				
Met	Glu	Glu	Val	Met	Ser	Leu	Leu	Gln	Pro	Leu	Asn	Ile	Thr	Gln	Val
385					390					395					400
Leu	Ser	His	Gly	Glu	Gly	Thr	Asp	Ile	Asn	Phe	Trp	Ile	Gln	Ala	Gly
			405					410					415		
Val	Pro	Gly	Ala	Ser	Leu	Leu	Asp	Asp	Leu	Tyr	Lys	Tyr	Phe	Phe	Phe

420	425	430
His His Ser His Gly Asp Thr Met Thr Val Met Asp Pro Lys Gln Met		
435	440	445
Asn Val Ala Ala Ala Val Trp Ala Val Val Ser Tyr Val Val Ala Asp		
450	455	460
Met Glu Glu Met Leu Pro Arg Ser		
465	470	

<210> 598  
 <211> 359  
 <212> PRT  
 <213> Homo sapiens

<400> 598  
 Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
 1 5 10 15  
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
 20 25 30  
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr  
 35 40 45  
 Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala  
 50 55 60  
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu  
 65 70 75 80  
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val  
 85 90 95  
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe  
 100 105 110  
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe  
 115 120 125  
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr His Cys Ser  
 130 135 140  
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val  
 145 150 155 160  
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Arg Ala  
 165 170 175  
 Val Pro Ser Ala Glu Pro Gln Ala Gly Gly Pro Met Thr Leu Ser Cys  
 180 185 190  
 Gln Thr Lys Leu Pro Leu Gln Arg Ser Ala Ala Arg Leu Leu Phe Ser  
 195 200 205

Phe Tyr Lys Asp Gly Arg Ile Val Gln Ser Arg Gly Leu Ser Ser Glu  
 210 215 220  
 Phe Gln Ile Pro Thr Ala Ser Glu Asp His SerGly Ser Tyr Trp Cys  
 225 230 235 240  
 Glu Ala Ala Thr Glu Asp Asn Gln Val Trp Lys Gln Ser Pro Gln Leu  
 245 250 255  
 Glu Ile Arg Val Gln Gly Ala Ser Ser SerAla Ala Pro Pro Thr Leu  
 260 265 270  
 Asn Pro Ala Pro Gln Lys Ser Ala Ala Pro Gly Thr Ala Pro Glu Glu  
 275 280 285  
 Ala Pro Gly Pro Leu Pro Pro Pro Pro Thr Pro Ser SerGlu Asp Pro  
 290 295 300  
 Gly Phe Ser Ser Pro Leu Gly Met Pro Asp Pro His Leu Tyr His Gln  
 305 310 315 320  
 Met Gly Leu Leu Leu Lys His Met Gln Asp Val Arg Val Leu LeuGly  
 325 330 335  
 His Leu Leu Met Glu Leu Arg Glu Leu Ser Gly His Arg Lys Pro Gly  
 340 345 350  
 Thr Thr Lys Ala Thr Ala Glu  
 355

<210> 599  
 <211> 379  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (283)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (303)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (307)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 599  
 Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu  
 1 5 10 15

Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr  
 20 25 30  
 His Gln Val Phe Leu Pro Ala Tyr Ala Ala Trp Thr Thr Glu Leu Gly  
 35 40 45  
 Asn Leu Gln Ser His Leu Ile Leu Thr Leu Leu Asn Lys Ile Glu Lys  
 50 55 60  
 Leu Leu Arg Glu Gly Glu His Gly Leu Asp Glu His Lys Leu His Met  
 65 70 75 80  
 Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu Val  
 85 90 95  
 Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu Val  
 100 105 110  
 Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu Gln  
 115 120 125  
 Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu Leu  
 130 135 140  
 Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp Glu  
 145 150 155 160  
 Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu Ile  
 165 170 175  
 Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe Ser  
 180 185 190  
 Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr Asn  
 195 200 205  
 Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu Glu  
 210 215 220  
 Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr Val  
 225 230 235 240  
 Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu Asp  
 245 250 255  
 Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu Ser  
 260 265 270  
 Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu Leu  
 275 280 285  
 Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa Tyr  
 290 295 300  
 Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg Met  
 305 310 315 320

Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln Arg  
                           325                          330                          335  
 Val Val Pro Ala Leu Ile Thr Leu Ser Ser Asp Pro Glu Ile Ser Val  
                           340                          345                          350  
 Arg Ile Ala Thr Ile Pro Ala Phe Gly Thr Ile Met Glu Thr Val Ile  
                           355                          360                          365  
 Gln Arg Glu Leu Leu Glu Arg Val Lys Met Gln  
           370                          375

<210> 600  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 600  
 Met Ser Thr Val Thr Trp Leu Leu Lys Leu Phe Thr Gln Phe Met Phe  
   1                          5                          10                          15  
 Pro Pro Thr Val Ser Asn Ser His Thr Cys Ala Arg Tyr Tyr Val Phe  
                           20                          25                          30  
 Asn Phe Cys Leu Ile Ile Ser Phe Asn Phe Asn Phe His Tyr His Trp  
           35                          40                          45

<210> 601  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 601  
 Met Gly Cys Leu Val Trp Gly Pro Ser Trp Pro Pro Leu Ser Leu Leu  
   1                          5                          10                          15  
 Ala Ser Leu Leu His Ser Gly Ile Ala Gly Arg Cys Leu Leu Cys Leu  
                           20                          25                          30  
 Phe Lys Gly Leu Ala Ala Ala Ala Ser Leu Gln Ile Arg Asp Leu Ala  
           35                          40                          45  
 Ser Arg Leu Thr Thr Gly Pro Arg Thr Cys Arg Val Gln Pro Pro Pro  
   50                          55                          60  
 His Pro Gln Ser Ser Pro Pro Trp Pro Gly Pro Pro Gly Ala Glu Thr  
   65                          70                          75                          80  
 Cys Arg Pro Leu Ser Arg Thr Val Gly Gly Val Cys Pro Ser Asp Trp  
           85                          90                          95

Pro Val Ser Trp Leu Leu Leu Pro Pro Leu Pro Glu Val Val Thr Cys  
100 105 110  
Ser Cys Pro Arg Ile Lys Ala Arg Pro Glu Arg Thr Pro Glu Leu Leu  
115 120 125  
Cys Ala Trp Gly Gly Arg Gly Lys His Ser Gln Leu Val Ala  
130 135 140

<210> 602  
<211> 399  
<212> PRT  
<213> Homo sapiens

<400> 602  
Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp  
1 5 10 15  
Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  
20 25 30  
Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly  
35 40 45  
Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
50 55 60  
Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
65 70 75 80  
Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
85 90 95  
Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
100 105 110  
Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
115 120 125  
Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr  
130 135 140  
Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg  
145 150 155 160  
Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile  
165 170 175  
Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr  
180 185 190  
Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser  
195 200 205

Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp  
 210 215 220  
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys  
 225 230 235 240  
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr  
 245 250 255  
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly  
 260 265 270  
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile  
 275 280 285  
 Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile  
 290 295 300  
 Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala  
 305 310 315 320  
 Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val  
 325 330 335  
 Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn  
 340 345 350  
 Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln  
 355 360 365  
 Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val  
 370 375 380  
 Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys  
 385 390 395

<210> 603  
 <211> 223  
 <212> PRT  
 <213> Homo sapiens

<400> 603  
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly  
 1 5 10 15  
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu  
 20 25 30  
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser  
 35 40 45  
 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Asp Cys Arg  
 50 55 60  
 Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg Gly Gln Pro Ser Met



Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val Leu Pro  
115 120 125  
Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu Phe Phe Ile Lys  
130 135 140  
Thr Lys Ala Glu Glu Lys Val Glu  
145 150

<210> 605  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 605  
Met Ser Val Leu Ser Gly Phe Leu Phe Ile Val Val Val Cys Cys Tyr  
1 5 10 15  
Cys Cys Phe Val Ala Arg Leu Gln Leu Thr Lys Tyr Glu Phe Lys Asn  
20 25 30  
Cys Val Val Ile Phe Arg Asp Leu  
35 40

<210> 606  
<211> 135  
<212> PRT  
<213> Homo sapiens

<400> 606  
Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala  
1 5 10 15  
Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu  
20 25 30  
Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser  
35 40 45  
Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala  
50 55 60  
Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu  
65 70 75 80  
Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser  
85 90 95  
Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly  
100 105 110  
Ala Ala Leu Gly Ala Ala Ser Ala Thr Leu Met Val Gly Leu Thr Val

115 120 125

Arg Ile Leu Ala Thr Arg His  
130 135

<210> 607  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 607  
Met Ala Thr Ile Leu Leu Lys Leu Pro Ile Leu Ser Ala Met Ile Lys  
1 5 10 15  
Lys Pro Leu Arg Asn Tyr Leu Lys Thr Ser Glu Thr Thr Met Glu Lys  
20 25 30  
Ile Ile Ile Gln Lys Leu Val Ala Asn Leu Lys Phe Leu Pro Leu Gly  
35 40 45  
Thr Leu Gln Leu Ala Met Met Ile Ala Asn Leu Ile Lys Lys Leu Phe  
50 55 60  
Phe Pro Leu Val Lys Ala Ala Lys  
65 70

<210> 608  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 608  
Met Arg Thr Phe Leu Thr Phe Val Ile Leu Lys Val Ile Leu Ile Phe  
1 5 10 15  
Leu Ser Ser Cys Ala Ser Phe Thr Arg Asn Leu Leu Thr Trp Pro Asn  
20 25 30  
Asp Val Ser Thr Glu Gln Phe Glu Thr Arg Pro Phe Gly Ser Glu Leu  
35 40 45  
Leu Gln Thr Val Ile Asn Val Ser Arg Thr  
50 55

<210> 609  
<211> 182  
<212> PRT  
<213> Homo sapiens

<400> 609  
Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly

1	5	10	15
Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg	20	25	30
Val His Gln Ala Ala Pro Leu Ser Asp Ala ProHis Asp Asp Ala His	35	40	45
Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala	50	55	60
Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly	65	70	75
Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val	85	90	95
Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln ArgHis	100	105	110
Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg	115	120	125
Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His	130	135	140
Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr	145	150	155
Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln	165	170	175
Asp Gly Asp Ser Met Ala	180		

<210> 610  
 <211> 950  
 <212> PRT  
 <213> Homo sapiens

<400> 610
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
1 5 10 15
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
20 25 30
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
35 40 45
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
50 55 60
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
 85 90 95  
 Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
 100 105 110  
 Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
 115 120 125  
 Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
 130 135 140  
 Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
 145 150 155 160  
 Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
 165 170 175  
 Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
 180 185 190  
 Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
 195 200 205  
 Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser  
 210 215 220  
 Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys  
 225 230 235 240  
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala  
 245 250 255  
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile  
 260 265 270  
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly  
 275 280 285  
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro  
 290 295 300  
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val  
 305 310 315 320  
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala  
 325 330 335  
 Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr  
 340 345 350  
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala  
 355 360 365  
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr  
 370 375 380

Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr  
 385 390 395 400  
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro  
 405 410 415  
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg  
 420 425 430  
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr  
 435 440 445  
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg  
 450 455 460  
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val  
 465 470 475 480  
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys  
 485 490 495  
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu  
 500 505 510  
 Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn  
 515 520 525  
 Val Pro Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu  
 530 535 540  
 Lys Pro Glu Lys Glu Lys Lys Lys Lys Met Lys Asn Glu Asn Ala Asp  
 545 550 555 560  
 Lys Leu Leu Lys Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser  
 565 570 575  
 Lys Gln Glu Lys Glu Lys Ser Lys Lys Lys Gly Gly Lys Thr Glu  
 580 585 590  
 Gln Asp Gly Tyr Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro  
 595 600 605  
 Lys Lys Ser Val Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg  
 610 615 620  
 Leu Leu Leu Ile Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln  
 625 630 635 640  
 Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys  
 645 650 655  
 Ile Ser Val Ile Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys  
 660 665 670  
 Ile Asp His Phe Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp  
 675 680 685

Asp Glu Asp Leu Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu  
 690 695 700  
 Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp  
 705 710 715 720  
 Leu Arg Val Lys Gln Tyr Tyr Glu Val Pro Ile Thr Met Lys Ser Val  
 725 730 735  
 Phe Asp Leu Ile Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys  
 740 745 750  
 Gln Lys Lys Glu Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu  
 755 760 765  
 Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile  
 770 775 780  
 Ser Ala Pro Asn Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala  
 785 790 795 800  
 Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu Arg His Ile Thr Ile Leu  
 805 810 815  
 Lys Leu Leu Gly Val Gly Glu Glu Val Gly Gly Val Leu Glu Leu Phe  
 820 825 830  
 Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His  
 835 840 845  
 Leu Val Lys Asp Ile Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe  
 850 855 860  
 Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro  
 865 870 875 880  
 Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met  
 885 890 895  
 Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg  
 900 905 910  
 Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His Ser Tyr His Gln  
 915 920 925  
 Gly Tyr Gln Asp Gly Tyr Gln Asp Asp Tyr Arg His His Glu Ser Tyr  
 930 935 940  
 His His Gly Tyr Pro Tyr  
 945 950

<210> 611  
 <211> 260  
 <212> PRT

<213> Homo sapiens

<400> 611

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Met Leu Ala Leu Leu Gly Leu Ser Gln Ala Leu Asn Ile Leu Leu Gly
 1          5          10          15

Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys Glu Lys Gly
 20          25          30

Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr
 35          40          45

Leu Arg Leu Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg Thr Tyr Asn
 50          55          60

Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln Arg Leu Tyr
 65          70          75          80

Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala
 85          90          95

Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp
100          105          110

Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn Ser Ile Tyr Glu Leu
115          120          125

Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val Leu Glu Tyr Ala Thr
130          135          140

Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr Ser Gln Ala Gly Phe
145          150          155          160

Ser Gly Glu Asp Arg Leu Glu Gln Ala Lys Leu Phe Cys Arg Thr Leu
165          170          175

Glu Asp Ile Leu Ala Asp Ala Pro Glu Ser Gln Asn Asn Cys Arg Leu
180          185          190

Ile Ala Tyr Gln Glu Pro Ala Asp Asp Ser Ser Phe Ser Leu Ser Gln
195          200          205

Glu Val Leu Arg His Leu Arg Gln Glu Glu Lys Glu Glu Val Thr Val
210          215          220

Gly Ser Leu Lys Thr Ser Ala Val Pro Ser Thr Ser Thr Met Ser Gln
225          230          235          240

Glu Pro Glu Leu Leu Ile Ser Gly Met Glu Lys Pro Leu Pro Leu Arg
245          250          255

Thr Asp Phe Ser
260
```

<210> 612

<211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 612  
 Met Gly Cys Arg Gly Asn Lys Leu Phe Val Leu Ser Tyr Cys Thr Cys  
   1                  5                  10                  15  
 Leu Thr Trp Leu Leu Gly Thr Lys Ser Gln Lys Asn Pro Phe Gln Val  
           20                  25                  30  
 Cys Met Ser Gly Gly Trp Ala Val Ser Arg Leu Glu Thr Gly Phe Gln  
           35                  40                  45  
 Ala Leu His Asp Gly Arg Ala Ser Ser Pro Leu Ser Ala Ala Cys Val  
   50                  55                  60  
 Leu Asp Arg Thr Val Ala Arg Arg Trp Lys Pro Pro Ser Val Pro Leu  
   65                  70                  75                  80  
 Ala His His Thr Lys  
                   85

<210> 613  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 613  
 Met Pro Leu Pro Ser Ser Phe Pro Leu Pro Val Phe Leu Ser Ser Cys  
   1                  5                  10                  15  
 Pro Phe Leu Met Ser Val Ser Ile Gly Phe Leu Ile Leu Val Phe Asn  
           20                  25                  30  
 Val His Pro  
           35

<210> 614  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 614  
 Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Arg Cys Ser  
   1                  5                  10                  15  
 Cys Ser Ala Leu Leu His Glu Ser Asn His Arg Pro Tyr Leu Asn Lys  
           20                  25                  30  
 Trp Ser Leu Leu Ser Thr Asn Lys Thr Leu Phe Arg Asn Asn Arg Gly  
   35                  40                  45

Leu Asp Leu Val Leu Val Cys  
50 55

<210> 615  
<211> 78  
<212> PRT  
<213> Homo sapiens

<400> 615  
Met Val Cys Phe Gln Ser Asn Lys Pro Ser Thr Ser Thr Trp Arg Gln  
1 5 10 15  
Leu Ser Phe Val Phe Val Leu Phe Cys Leu Phe Cys Leu Gly His Ala  
20 25 30  
Phe Leu Ser Leu Pro Phe Tyr Ile Leu Ser Ile Ile Ala Met Cys Leu  
35 40 45  
Glu Gln Trp Ala Phe His Asn Met Asn Ser Leu Tyr His His Glu Trp  
50 55 60  
Glu Val Arg Gly Asn Leu Ile His Val Asp Phe Thr Leu Pro  
65 70 75

<210> 616  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 616  
Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met  
1 5 10 15  
Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly  
20 25 30  
Ile Phe Ile Gly Pro Glu Gln Phe Leu  
35 40

<210> 617  
<211> 56  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 617  
Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu

1	5	10	15
Leu Ser Phe	Leu Ile Ser Asp Trp	Pro Pro Pro Thr Gly	Ser Ala Xaa
20	25	30	
His Lys Ile	Leu Arg Leu Met Val	Val Gln Arg Leu Ser	Leu Leu Asp
35	40	45	
Gln Arg Lys	Arg Trp Ser Glu Ala		
50	55		

<210> 618  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 618
Met Ala Ile Arg Leu Val Phe Leu Ala Leu Ala Gly Leu Val Asp Gly
1 5 10 5
Lys Pro Val Trp Ile Thr Leu Trp Met Asp Ala Lys Arg Pro Asn Leu
20 25 30
Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys
35 40 45
His Gly Pro Thr Ala Trp Ser Leu Pro Cys Leu Leu Cys Leu Phe Arg
50 55 60
Ala Gln Gln Lys Asp Arg Glu Arg Ser Leu Leu Gly Val Pro Leu Pro
65 70 75 80
Thr Leu Gln Gly Gly Asn Leu Ser Asp Gly
85 90

<210> 619  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 619
Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp
1 5 10 15
Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln
20 25 30
Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro
35 40 45
Trp Thr Glu Leu His His Cys Leu Arg
50 55

<210> 620  
 <211> 434  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (381)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 620

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Met Ala Leu Thr Ala Pro Ser Leu Ser Leu Asp Ala Arg Gln Leu Trp
  1              5              10              15

Asp Ser Pro Glu Thr Ala Pro Ala Ala Arg Thr Pro Gln Ser Pro Ala
      20              25              30

Pro Cys Val Leu Leu Arg Ala Gln Arg Ser Leu Ala Pro Glu Pro Lys
      35              40              45

Glu Pro Leu Ile Pro Ala Ser Pro Lys Ala Glu Pro Ile Trp Glu Leu
      50              55              60

Pro Thr Arg Ala Pro Arg Leu Ser Ile Gly Asp Eu Asp Phe Ser Asp
      65              70              75              80

Leu Gly Glu Asp Glu Asp Gln Asp Met Leu Asn Val Glu Ser Val Glu
      85              90              95

Ala Gly Lys Asp Ile Pro Ala Pro Ser Pro Pro Leu Pro Leu Leu Ser
      100              105              110

Gly Val Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Ile Lys Gly
      115              120              125

Pro Phe Pro Pro Pro Pro Pro Leu Pro Leu Ala Ala Pro Eu Pro His
      130              135              140

Ser Val Pro Asp Ser Ser Ala Leu Pro Thr Lys Arg Lys Thr Val Lys
      145              150              155              160

Leu Phe Trp Arg Glu Leu Lys Leu Ala Gly Gly His Gly Val Ser As
      165              170              175

Ser Arg Phe Gly Pro Cys Ala Thr Leu Trp Ala Ser Leu Asp Pro Val
      180              185              190

Ser Val Asp Thr Ala Arg Leu Glu His Leu Phe Glu Ser Arg Ala Lys
      195              200              205

Glu Val Leu Pro Ser Lys Lys Ala Gly Glu Gly Arg Arg Thr Met Thr
      210              215              220

Thr Val Leu Asp Pro Lys Arg Ser Asn Ala Ile Asn Ile Gly Leu Thr
      225              230              235              240

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Thr Leu Pro Pro Val His Val Ile Lys Ala Ala Leu Leu Asn Phe Asp  
 245 250 255  
 Glu Phe Ala Val Ser Lys Asp Gly Ile Glu Lys Leu Leu Thr Met Met  
 260 265 270  
 Pro Thr Glu Glu Glu Arg Gln Lys Ile Glu Glu Ala Gln Leu Ala Asn  
 275 280 285  
 Pro Asp Ile Pro Leu Gly Pro Ala Glu Asn Phe Leu Met Thr Leu Ala  
 290 295 300  
 Ser Ile Gly Gly Leu Ala Ala Arg Leu Gln Leu Trp Ala Phe Lys Leu  
 305 310 315 320  
 Asp Tyr Asp Ser Met Glu Arg Glu Ile Ala Glu Pro Leu Phe Asp Leu  
 325 330 335  
 Lys Val Gly Met Glu Gln Leu Val Gln Asn Ala Thr Phe Arg Cys Ile  
 340 345 350  
 Leu Ala Thr Leu Leu Ala Val Gly Asn Phe Leu Asn Gly Ser Gln Ser  
 355 360 365  
 Ser Gly Phe Glu Leu Ser Tyr Leu Glu Lys Val Ser Xaa Val Lys Asp  
 370 375 380  
 Thr Val Arg Arg Gln Ser Leu Leu His His Leu Cys Ser Leu Val Leu  
 385 390 395 400  
 Gln Thr Arg Pro Glu Ser Ser Asp Leu Tyr Ser Glu Ile Pro Ala Leu  
 405 410 415  
 Thr Arg Cys Ala Lys Val Ser Thr Cys Gln Asn Gln Pro Arg Pro Asp  
 420 425 430  
 Lys Ala

<210> 621  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<400> 621  
 Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu Ser Ala  
 1 5 10 15  
 Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu  
 20 25 30  
 Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg  
 35 40 45

Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro ~~Al~~ His Leu  
           50                                  55                                  60  
 Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys  
           65                                  70                                  75                                  80  
 Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr ~~Pe~~  
                                   85                                  90                                  95  
 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu  
                                   100                                  105                                  110  
 Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala  
                                   115                                  120                                  125  
 Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys  
           130                                  135                                  140  
 Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala  
   145                                  150                                  155                                  160  
 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val  
                                   165                                  170                                  175  
 Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu  
                                   180                                  185                                  190  
 Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu  
           195                                  200                                  205  
 Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu  
           210                                  215                                  220  
 Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu  
   225                                  230                                  235                                  240  
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile  
                                   245                                  250                                  255  
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg  
                                   260                                  265                                  270  
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg  
           275                                  280                                  285  
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser  
           290                                  295                                  300  
 Leu  
 305

<210> 622  
 <211> 364  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 622  
 Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly Pro Arg Leu  
   1                  5                  10                  15  
 Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg Ala Gly Gly  
                   20                  25                  30  
 Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala Cys Arg Leu  
           35                  40                  45  
 Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser Gly Glu Arg  
   50                  55                  60  
 Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met Val Gly Leu  
   65                  70                  75                  80  
 Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met Gly Thr Met  
                   85                  90                  95  
 Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu Leu Ser Phe  
           100                  105                  110  
 Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu Leu Pro Glu  
   115                  120                  125  
 Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu Gly Gln Ser  
   130                  135                  140  
 Leu Gln Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala Gly Ile Leu  
  145                  150                  155                  160  
 Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys Glu Glu Gly  
           165                  170                  175  
 Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala Ala Ala Leu  
           180                  185                  190  
 Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro Gly Leu Gly  
   195                  200                  205  
 Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn Leu Leu Ala  
   210                  215                  220  
 Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala Ala Ser Phe  
  225                  230                  235                  240  
 Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala Ile Leu Leu  
           245                  250                  255  
 His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu Leu Arg Ala  
           260                  265                  270

Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser Thr Ala Leu  
 275 280 285  
 Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln Ser Pro Lys  
 290 295 300  
 Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr Ser Gly Gly  
 305 310 315 320  
 Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu Leu Glu Glu  
 325 330 335  
 Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu Cys Ala Gly  
 340 345 350  
 Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp  
 355 360

<210> 623  
 <211> 282  
 <212> PRT  
 <213> Homo sapiens

<400> 623  
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
 1 5 10 15  
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
 20 25 30  
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
 35 40 45  
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
 50 55 60  
 Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
 65 70 75 80  
 Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala  
 85 90 95  
 Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser  
 100 105 110  
 Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu  
 115 120 125  
 Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp  
 130 135 140  
 Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn  
 145 150 155 160

Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu  
 165 170 175  
 Arg Pro Glu Ile Leu Arg Leu Met Thr Leu PheMet Arg Tyr Arg Ser  
 180 185 190  
 Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val  
 195 200 205  
 Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu GlnAla Leu  
 210 215 220  
 His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His  
 225 230 235 240  
 Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser  
 245 250 255  
 Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly  
 260 265 270  
 Val Ala Val Ser Leu Ser His Ile Arg Asn  
 275 280

<210> 624

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring amino acids

<400> 624

Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro  
 1 5 10 15  
 Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp  
 20 25 30  
 Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala  
 35 40 45  
 Arg Pro Gly Ala Xaa Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr  
 50 55 60  
 Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu  
 65 70 75 80  
 Gly Ala Asn Gly Ala Gln Pro  
 85

<210> 625  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 625  
 Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys  
           1                  5                  10                  15  
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp  
                   20                  25                  30  
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln  
                   35                  40                  45  
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp  
           50                  55                  60  
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr  
           65                  70                  75                  80  
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu  
                   85                  90                  95  
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn  
                   100                  105                  110  
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Leu Ser Met  
           115                  120                  125  
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly  
           130                  135                  140  
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Pro Pro  
           145                  150                  155                  160  
 Trp Gln Pro Ala Met Ser Pro Val Pro Gly Thr Gly Gly Pro Pro Cys  
                   165                  170                  175  
 Gly Leu

<210> 626  
 <211> 298  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (58)

<223> Xaa equals any of the naturally occurring amino acids

<400> 626

```
Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
  1           5           10           15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
      20           25           30

Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu
      35           40           45

Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys
      50           55           60

Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
      65           70           75           80

Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
      85           90           95

Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser
      100          105          110

Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
      115          120          125

Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
      130          135          140

Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
      145          150          155          160

Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu
      165          170          175

Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met
      180          185          190

Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp
      195          200          205

Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg
      210          215          220

Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Id
      225          230          235          240

Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu
      245          250          255

Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Th Ser
      260          265          270

Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn
      275          280          285
```

Asp Phe Lys His Thr Lys Ser Phe Ile Ile  
 290 295

<210> 627  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 627  
 Met Glu Pro Val Ala Leu Leu Gln Pro Thr Trp Trp Leu Leu Asn Val  
 1 5 10 15  
 Thr Leu Pro Leu Val Ala Trp Ser Gly Pro Leu Ile Cys ArgPro Leu  
 20 25 30  
 Leu His Gly Glu Gly Arg Gln Gly Ala Ala Cys Leu Gln Gly  
 35 40 45

<210> 628  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 628  
 Met Ile Lys Ile Leu Lys Glu Ala Ile Glu Glu Thr Ser Phe Cys Ser  
 1 5 10 15  
 Phe Trp Arg Ile Ser Phe Gln Leu Ser Ile His His Ile Phe Leu Ile  
 20 25 30  
 Phe Cys Ala Gln Leu Thr Thr Leu Leu Tyr Ser Thr Phe Leu Phe Ile  
 35 40 45  
 Pro Ile Ser Trp Phe Leu Ile Val Pro Gly Ala Val Asp Lys Thr Ile  
 50 55 60  
 Leu  
 65

<210> 629  
 <211> 208  
 <212> PRT  
 <213> Homo sapiens

<400> 629  
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met  
 1 5 10 15  
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser  
 20 25 30

Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp  
           35                          40                          45  
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro  
           50                          55                          60  
 Asn Ser Thr Asn His Val Ala Leu Arg Asp Thr Gly Asn Gln Leu Ile  
           65                          70                          75                          80  
 Val Thr Met Ser Cys Leu Thr Lys Glu Asp Thr Gly Trp Tyr Trp Cys  
                           85                          90                          95  
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu  
                           100                          105                          110  
 Ile Val Thr Asp Asp Lys Gly Thr Leu Ala Asn Asp Phe Trp Ser Gly  
           115                          120                          125  
 Lys Asp Leu Ser Gly Asn Lys Thr Arg Ser Cys Lys Ala Pro Lys Val  
           130                          135                          140  
 Val Arg Lys Ala Asp Arg Ser Arg Thr Ser Ile Leu Ile Ile Cys Ile  
           145                          150                          155                          160  
 Leu Ile Thr Gly Leu Gly Ile Ile Ser Val Ile Ser His Leu Thr Lys  
                           165                          170                          175  
 Arg Arg Arg Ser Gln Arg Asn Arg Arg Val Gly Asn Thr Leu Lys Pro  
                           180                          185                          190  
 Phe Ser Arg Val Leu Thr Pro Lys Glu Met Ala Pro Thr Glu Gln Met  
           195                          200                          205

<210> 630  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 630  
 Met Gly Trp Leu Trp Leu Glu Leu Leu Gly Leu Ser IleGlu Glu Thr  
   1                          5                          10                          15  
 Leu Val Trp Ala Phe Leu Asn Lys Phe Leu Asp Ser Ser Ala Ala Leu  
           20                          25                          30  
 Leu Trp Arg Ile Leu Gly Lys Ser Asn Leu Ser Thr  
           35                          40

<210> 631  
 <211> 158

<212> PRT

<213> Homo sapiens

<400> 631

Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly  
1 5 10 15

Ala Glu Asn Leu His Val Lys Ile Ser Cys Ser Leu Asp Trp Leu Met  
20 25 30

Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala  
35 40 45

Asp Glu Leu His Leu Gly Met Gly Cys Pro Aa Asn Arg Ile His Thr  
50 55 60

Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr  
65 70 75 80

Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Gu Leu Tyr Phe  
85 90 95

Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys  
100 105 110

Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Hr Glu Asn  
115 120 125

Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr  
130 135 140

Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu  
145 150 155

<210> 632

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring amino acids

<400> 632

Met Glu Leu Glu Arg Cys Ser Val Val Leu Cys Ile Leu Ala As Leu  
1 5 10 15

Ala Val Leu Arg Ala Leu Phe Leu Pro Cys Ile Ile Phe His Cys Val  
20 25 30

Ser Asp Ser Arg Ser Val Asn Arg Glu Thr Lys Val Lys Phe Val Hi  
35 40 45

Thr Ser Val His Gly Val Gly His Ser Phe Val Gln Ser Ala Phe Lys

50	55	60
Ala Phe Xaa Leu Val Pro Pro Glu Ala Val Pro Glu Gln Lys Asp Pro		
65	70	75 80
Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn Pro Glu Glu Gly Lys		
	85	90 95
Gly Val Leu Val Thr		
	100	
<210> 633		
<211> 231		
<212> PRT		
<213> Homo sapiens		
<400> 633		
Met Trp Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu		
1	5	10 15
Leu Thr His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu		
	20	25 30
Ala Ala Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His		
	35	40 45
Gly Gly Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser		
	50	55 60
Leu Pro Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys		
	65	70 75 80
Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser		
	85	90 95
Leu Ser Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val		
	100	105 110
Val Arg Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr		
	115	120 125
Arg Arg Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg		
	130	135 140
Asn Cys Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val		
	145	150 155 160
Ser Phe Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln		
	165	170 175
Val Lys Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln		
	180	185 190
Leu Val Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys		
	195	200 205

Pro Val Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val  
 210 215 220

Pro Cys Leu Ser Val Ser Leu  
 225 230

<210> 634  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 634  
 Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser  
 1 5 10 15  
 Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His  
 20 25 30  
 Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu  
 35 40 45  
 Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu  
 50 55 60  
 Ser Val Thr Lys Thr Phe Leu  
 65 70

<210> 635  
 <211> 230  
 <212> PRT  
 <213> Homo sapiens

<400> 635  
 Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu  
 1 5 10 15  
 Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr  
 20 25 30  
 Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys  
 35 40 45  
 Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys  
 50 55 60  
 Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala  
 65 70 75 80  
 Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile  
 85 90 95  
 Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg

100	105	110
Ala Lys Asp Arg Val Ala Val	Ala Gly Gly Val Phe Phe Ile Leu Gly	
115	120	125
Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu		
130	135	140
Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile		
145	150	155
Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile		
165	170	175
Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser		
180	185	190
Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser		
195	200	205
Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr		
210	215	220
Ser Leu Thr Gly Tyr Val		
225	230	

<210> 636  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 636
Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys
1 5 10 15
Trp Cys Trp Leu Cys Arg Glu Ala Leu Glu Trp Leu Cys Gly Ala Val
20 25 30
Ser Ala Gly Pro Ala
35

<210> 637  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 637
Met Arg Val Pro Leu Val Leu Ser Trp Ala Phe Val Leu Val Gly Phe
1 5 10 15
Ser Gly Val Tyr Leu Ala Ser Glu Ser Phe Trp Phe Pro Pro Ser Leu
20 25 30

Cys Asp Leu Thr Ser Pro Pro Gly Leu His Leu Trp Lys Phe Ile Arg  
           35                          40                          45  
 Asp Leu Val Ser Met Glu Glu Leu Thr Asp Ser Ala Arg Glu Met Gly  
           50                          55                          60  
 Tyr Trp Met Met Val Phe Ser Leu Lys Ala Met Phe Pro Val Ser Ser  
           65                          70                          75                          80  
 Gly Cys Phe Gln Glu Arg Gln Glu Thr Asn Lys Ser Leu Thr Leu Leu  
                           85                          90                          95  
 Arg Cys Ser Gln Arg Asp Thr Ser Pro Leu Met Asp Gly Gln Thr Trp  
                           100                          105                          110  
 Ala Arg Val Arg Val Thr Lys Pro Pro Thr Thr Ala Ser Ala Ala Tyr  
           115                          120                          125  
 Asn Arg His Ile Arg  
           130

<210> 638  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 638  
 Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu  
       1                          5                          10                          15  
 Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser  
           20                          25                          30  
 Trp Pro Lys Thr Leu Val Glu Glu Gln Asn  
           35                          40

<210> 639  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 639  
 Met Val Leu Lys Gln Lys Gln Tyr Leu Phe Thr Val Gly Ile Leu Phe  
       1                          5                          10                          15  
 Ile Leu Phe Phe Ser Pro Val Asn Ala Val Lys Arg Phe Ile Pro Leu  
           20                          25                          30  
 Arg Pro Gly Ser Ser Gln Ala Tyr Met Leu Leu Gly  
           35                          40

<210> 640  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 640  
 Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala  
   1                  5                  10                  15  
 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val  
           20                  25                  30  
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asn Asp Leu Asp  
           35                  40                  45  
 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln  
       50                  55                  60  
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala  
   65                  70                  75                  80  
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala  
                   85                  90                  95  
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu  
           100                  105                  110

<210> 641  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 641  
 Met Phe Leu Lys Val Leu Val Phe Leu Ile Phe Phe Ser Pro Phe Ser  
   1                  5                  10                  15  
 Ser Ser Leu Phe Ser Gly Glu Ala Val Arg Gly Arg Gly Ala Gly Leu  
           20                  25                  30  
 Gly Leu Gly Ile Gly Arg Gly Trp Thr Ser Cys Leu Ser Val Leu Asn  
       35                  40                  45  
 Gly Cys Asp Gly Ala Arg Ser His  
       50                  55

<210> 642  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 642  
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu  
   1                  5                  10                  15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile  
20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro  
35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu  
50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr  
65 70 75

<210> 643  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 643  
Met Gly Pro Cys Arg Ala Ser Arg Cys Leu Ser Leu Leu Val Leu Phe  
1 5 10 15

Pro Pro Gly Val Ala Gly Arg Pro Ala Pro Gly Arg Leu His Pro Val  
20 25 30

Pro Thr Gly Pro Leu Pro Arg Met Tyr Ser Ala Gly Ala Arg Gly Arg  
35 40 45

His Gly Ala His  
50

<210> 644  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 644  
Met Asp Gly Gly Pro Gly Ala Phe Ser Arg Ala Trp Val Leu Gln Ile  
1 5 10 15

Pro Trp Leu Leu Leu Ser Gly Gly Asn Phe Ala Leu Cys Glu Pro Arg  
20 25 30

Pro Cys Pro Ser Ala Gly His Pro Trp Gln Glu Ala Gly Leu Pro Ser  
35 40 45

Ser Pro  
50

<210> 645  
<211> 45

<212> PRT  
<213> Homo sapiens

<400> 645  
Met Leu Val Ser Leu Ile Ile Cys Leu Leu Leu Asp Leu Leu Asn Gln  
1 5 10 15  
Pro Ser Leu Leu Arg Asp Leu Ile Leu Lys Gln His Thr Gly Asn Pro  
20 25 30  
His Leu Ser Phe Pro Leu Lys Tyr Ser His Trp Met Gly  
35 40 45

<210> 646  
<211> 168  
<212> PRT  
<213> Homo sapiens

<400> 646  
Met Val Thr Phe Ile Thr Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr  
1 5 10 15  
Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro  
20 25 30  
Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Ser Arg  
35 40 45  
Leu His Gly Gln Pro Asn Cys Gly Glu Thr Arg Phe Trp Gly His Gly  
50 55 60  
Ser Leu Gln His His Arg Ser Asn Val Phe Asp Ile Leu Val Gly Leu  
65 70 75 80  
Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Tyr Ser Thr  
85 90 95  
Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu Leu  
100 105 110  
Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Phe Arg  
115 120 125  
Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile Phe  
130 135 140  
Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val Asn  
145 150 155 160  
Leu Pro Met Cys Arg Glu Asp Asp  
165

<210> 647

<211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 647  
 Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr  
 1 5 10 15  
 Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val  
 20 25 30  
 Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys  
 35 40

<210> 648  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 648  
 Met Ser Gly Leu Ala Ala Ala His Val Phe Arg Val Cys Leu Phe  
 1 5 10 15  
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His GlyLeu Ser  
 20 25 30  
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys  
 35 40 45  
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala  
 50 55 60  
 Phe Pro Ile Ser Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser  
 65 70 75 80  
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr  
 85 90 95  
 Ser Phe Ser Val Pro Cys Arg Val Lys  
 100 105

<210> 649  
 <211> 1887  
 <212> PRT  
 <213> Homo sapiens

<400> 649  
 Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu SerVal Leu  
 1 5 10 15  
 Leu Ala Ala Gly Pro Ser Ala Ala Ala Lys Leu Asn Ile Pro Lys  
 20 25 30

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr LeuGlu  
35 40 45  
Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala  
50 55 60  
Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala  
65 70 75 80  
Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile  
85 90 95  
Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile  
100 105 110  
Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu  
115 120 125  
Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser  
130 135 140  
Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr  
145 150 155 160  
Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala  
165 170 175  
Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr  
180 185 190  
Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val  
195 200 205  
Ser Gly Met Lys Thr Gly Ser Ser Lys Leu Lys Ala Arg Ile Gln Glu  
210 215 220  
Ala Val Tyr Lys Asn Val Arg Pro Ala Glu Val Arg Leu Leu Ile Leu  
225 230 235 240  
Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly  
245 250 255  
Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr  
260 265 270  
Glu Leu Ser Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser  
275 280 285  
Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala  
290 295 300  
Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu  
305 310 315 320  
Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro  
325 330 335

Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val  
 340 345 350  
 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile  
 355 360 365  
 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp  
 370 375 380  
 Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu  
 385 390 395 400  
 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg  
 405 410 415  
 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp  
 420 425 430  
 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val  
 435 440 445  
 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro  
 450 455 460  
 Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly  
 465 470 475 480  
 Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr  
 485 490 495  
 Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser  
 500 505 510  
 Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met  
 515 520 525  
 Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln  
 530 535 540  
 Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser  
 545 550 555 560  
 Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys  
 565 570 575  
 Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln  
 580 585 590  
 Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val  
 595 600 605  
 Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr  
 610 615 620  
 Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr  
 625 630 635 640

Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu  
 645 650 655  
 Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile  
 660 665 670  
 Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp  
 675 680 685  
 Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln  
 690 695 700  
 Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile  
 705 710 715 720  
 Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala  
 725 730 735  
 Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu  
 740 745 750  
 Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro  
 755 760 765  
 Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn  
 770 775 780  
 Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp  
 785 790 795 800  
 Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu  
 805 810 815  
 Ala Ser Ile Glu Pro Glu Leu Pro Met Gln Leu Val Ser Gln Asp Asp  
 820 825 830  
 Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His  
 835 840 845  
 Glu Ala Ser Gly Thr Thr Ala Ile Thr Ala Thr Ala Thr Gly Tyr Gln  
 850 855 860  
 Glu Ser His Leu Ser Ser Ala Arg Thr Lys Gln Pro His Asp Pro Leu  
 865 870 875 880  
 Val Pro Leu Ser Ala Ser Ile Glu Leu Ile Leu Val Glu Asp Val Arg  
 885 890 895  
 Val Ser Pro Glu Glu Val Thr Ile Tyr Asn His Pro Gly Ile Gln Ala  
 900 905 910  
 Glu Leu Arg Ile Arg Glu Gly Ser Gly Tyr Phe Phe Leu Asn Thr Ser  
 915 920 925  
 Thr Ala Asp Val Val Lys Val Ala Tyr Gln Glu Ala Arg Gly Val Ala  
 930 935 940

Met Val His Pro Leu Leu Pro Gly Ser Ser Thr Ile Met Ile His Asp  
 945 950 955 960  
 Leu Cys Leu Val Phe Pro Ala Pro Ala Lys Ala Val Val Tyr Val Ser  
 965 970 975  
 Asp Ile Gln Glu Leu Tyr Ile Arg Val Val Asp Lys Val Glu Ile Gly  
 980 985 990  
 Lys Thr Val Lys Ala Tyr Val Arg Val Leu Asp Leu His Lys Lys Pro  
 995 1000 1005  
 Phe Leu Ala Lys Tyr Phe Pro Phe Met Asp Leu Lys Leu Arg Ala Ala  
 1010 1015 1020  
 Ser Pro Ile Ile Thr Leu Val Ala Leu Asp Glu Ala Leu Asp Asn Tyr  
 1025 1030 1035 1040  
 Thr Ile Thr Phe Leu Ile Arg Gly Val Ala Ile Gly Gln Thr Ser Leu  
 1045 1050 1055  
 Thr Ala Ser Val Thr Asn Lys Ala Gly Gln Arg Ile Asn Ser Ala Pro  
 1060 1065 1070  
 Gln Gln Ile Glu Val Phe Pro Pro Phe Arg Leu Met Pro Arg Lys Val  
 1075 1080 1085  
 Thr Leu Leu Ile Gly Ala Thr Met Gln Val Thr Ser Glu Gly Gly Pro  
 1090 1095 1100  
 Gln Pro Gln Ser Asn Ile Leu Phe Ser Ile Ser Asn Glu Ser Val Ala  
 1105 1110 1115 1120  
 Leu Val Ser Ala Ala Gly Leu Val Gln Gly Leu Ala Ile Gly Asn Gly  
 1125 1130 1135  
 Thr Val Ser Gly Leu Val Gln Ala Val Asp Ala Glu Thr Gly Lys Val  
 1140 1145 1150  
 Val Ile Ile Ser Gln Asp Leu Val Gln Val Glu Val Leu Leu Leu Arg  
 1155 1160 1165  
 Ala Val Arg Ile Arg Ala Pro Ile Met Arg Met Arg Thr Gly Thr Gln  
 1170 1175 1180  
 Met Pro Ile Tyr Val Thr Gly Ile Thr Asn His Gln Asn Pro Phe Ser  
 1185 1190 1195 1200  
 Phe Gly Asn Ala Val Pro Gly Leu Thr Phe His Trp Ser Val Thr Lys  
 1205 1210 1215  
 Arg Asp Val Leu Asp Leu Arg Gly Arg His His Glu Ala Ser Ile Arg  
 1220 1225 1230  
 Leu Pro Ser Gln Tyr Asn Phe Ala Met Asn Val Leu Gly Arg Val Lys  
 1235 1240 1245

Gly Arg Thr Gly Leu Arg Val Val Val Lys Ala Val Asp Pro Thr Ser  
 1250 1255 1260  
 Gly Gln Leu Tyr Gly Leu Ala Arg Glu Leu Ser Asp Glu Ile Gln Val  
 1265 1270 1275 1280  
 Gln Val Phe Glu Lys Leu Gln Leu Leu Asn Pro Glu Ile Glu Ala Glu  
 1285 1290 1295  
 Gln Ile Leu Met Ser Pro Asn Ser Tyr Ile Lys Leu Gln Thr Asn Arg  
 1300 1305 1310  
 Asp Gly Ala Ala Ser Leu Ser Tyr Arg Val Leu Asp Gly Pro Glu Lys  
 1315 1320 1325  
 Val Pro Val Val His Val Asp Glu Lys Gly Phe Leu Ala Ser Gly Ser  
 1330 1335 1340  
 Met Ile Gly Thr Ser Thr Ile Gly Val Ile Ala Gln Glu Pro Phe Gly  
 1345 1350 1355 1360  
 Ala Asn Gln Thr Ile Ile Val Ala Val Lys Val Ser Pro Val Ser Tyr  
 1365 1370 1375  
 Leu Arg Val Ser Met Ser Pro Val Leu His Thr Gln Asn Lys Glu Ala  
 1380 1385 1390  
 Leu Val Ala Val Pro Leu Gly Met Thr Val Thr Phe Thr Val His Phe  
 1395 1400 1405  
 His Asp Asn Ser Gly Asp Val Phe His Ala His Ser Ser Val Leu Asn  
 1410 1415 1420  
 Phe Ala Thr Asn Arg Asp Asp Phe Val Gln Ile Gly Lys Gly Pro Thr  
 1425 1430 1435 1440  
 Asn Asn Thr Cys Val Val Arg Thr Val Ser Val Gly Leu Thr Leu Leu  
 1445 1450 1455  
 Arg Val Trp Asp Ala Glu His Pro Gly Leu Ser Asp Phe Met Pro Leu  
 1460 1465 1470  
 Pro Val Leu Gln Ala Ile Ser Pro Glu Leu Ser Gly Ala Met Val Val  
 1475 1480 1485  
 Gly Asp Val Leu Cys Leu Ala Thr Val Leu Thr Ser Leu Glu Gly Leu  
 1490 1495 1500  
 Ser Gly Thr Trp Ser Ser Ser Ala Asn Ser Ile Leu His Ile Asp Pro  
 1505 1510 1515 1520  
 Lys Thr Gly Val Ala Val Ala Arg Ala Val Gly Ser Val Thr Val Ty  
 1525 1530 1535  
 Tyr Glu Val Ala Gly His Leu Arg Thr Tyr Lys Glu Val Val Val Ser  
 1540 1545 1550

Val Pro Gln Arg Ile Met Ala Arg His Leu His Pro Ile Gln Thr Ser  
1555 1560 1565  
Phe Gln Glu Ala Thr Ala Ser Lys Val Ile Val Ala Val Gly Asp Arg  
1570 1575 1580  
Ser Ser Asn Leu Arg Gly Glu Cys Thr Pro Thr Gln Arg Glu Val Ile  
1585 1590 1595 1600  
Gln Ala Leu His Pro Glu Thr Leu Ile Ser Cys Gln Ser Gln Phe Lys  
1605 1610 1615  
Pro Ala Val Phe Asp Phe Pro Ser Gln AspVal Phe Thr Val Glu Pro  
1620 1625 1630  
Gln Phe Asp Thr Ala Leu Gly Gln Tyr Phe Cys Ser Ile Thr Met His  
1635 1640 1645  
Arg Leu Thr Asp Lys Gln Arg Lys His Leu Ser Met Lys Lys Thr Ala  
1650 1655 1660  
Leu Val Val Ser Ala Ser Leu Ser Ser Ser His Phe Ser Thr Glu Gln  
1665 1670 1675 1680  
Val Gly Ala Glu Val Pro Phe Ser Pro Gly Leu Phe Ala Asp Gln Ala  
1685 1690 1695  
Glu Ile Leu Leu Ser Asn His Tyr Thr Ser Ser Glu Ile Arg Val Phe  
1700 1705 1710  
Gly Ala Pro Glu Val Leu Glu Asn Leu Glu Val Lys Ser Gly Ser Pro  
1715 1720 1725  
Ala Val Leu Ala Phe Ala Lys Glu Lys Ser Phe Gly Trp Pro Ser Phe  
1730 1735 1740  
Ile Thr Tyr Thr Val Gly Val Leu Asp Pro Ala Ala Gly Ser Gln Gly  
1745 1750 1755 1760  
Pro Leu Ser Thr Thr Leu Thr Phe Ser Ser Pro Val Thr Asn Gln Ala  
1765 1770 1775  
Ile Ala Ile Pro Val Thr Val Ala Phe Val Val Asp Arg Arg Gly Pro  
1780 1785 1790  
Gly Pro Tyr Gly Ala Ser Leu Phe Gln His Phe Leu Asp Ser Tyr Gln  
1795 1800 1805  
Val Met Phe Phe Thr Leu Phe Ala Leu Leu Ala Gly Thr Ala Val Met  
1810 1815 1820  
Ile Ile Ala Tyr His Thr Val Cys Thr Pro Arg Asp Leu Ala Val Pro  
1825 1830 1835 1840  
Ala Ala Leu Thr Pro Arg Ala Ser Pro Gly His Ser Pro His Tyr Phe  
1845 1850 1855

Ala Ala Ser Ser Pro Thr Ser Pro Asn Ala Leu Pro Pro Ala Arg Lys  
 1860 1865 1870

Ala Ser Pro Pro Ser Gly Leu Trp Ser Pro Ala Tyr Ala Ser His  
 1875 1880 1885

<210> 650  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 650  
 Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met Lys Ser  
 1 5 10 15  
 Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp  
 20 25 30  
 Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser  
 35 40 45  
 Lys Phe Ile Ser  
 50

<210> 651  
 <211> 346  
 <212> PRT  
 <213> Homo sapiens

<400> 651  
 Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala  
 1 5 10 15  
 Gly Trp Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu  
 20 25 30  
 Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys  
 35 40 45  
 Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala  
 50 55 60  
 Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg  
 65 70 75 80  
 Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu  
 85 90 95  
 His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg  
 100 105 110  
 Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly  
 115 120 125

Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val  
 130 135 140  
 Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser  
 145 150 155 160  
 Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn  
 165 170 175  
 Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly  
 180 185 190  
 Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly  
 195 200 205  
 Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp  
 210 215 220  
 Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg  
 225 230 235 240  
 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr  
 245 250 255  
 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met  
 260 265 270  
 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala  
 275 280 285  
 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln  
 290 295 300  
 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln  
 305 310 315 320  
 Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu  
 325 330 335  
 Leu Leu Ala Val Ala Ala Gly Val Leu Leu  
 340 345

<210> 652  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<400> 652  
 Met Trp Pro Gln Glu Ala Trp Val Cys Ile Leu Val Leu Leu Gly Thr  
 1 5 10 15  
 Arg Val Gly Leu Cys Val Gly Asp Ser Leu Ala Pro Gln Ala Ser Leu  
 20 25 30

Ser Tyr Cys Tyr Ile Leu Lys Val Pro Leu Arg Pro Lys Pro Leu Trp  
                   35                                  40                                  45  
 Gln Leu Ser Asn Glu Ser Ile Cys Ser Glu Tyr Arg Val Glu Gly Gly  
           50                                  55                                  60  
 Gln Gly His Gln Glu Leu Arg Met Phe Leu Arg Leu Met Arg Pro Arg  
       65                                  70                                  75                                  80  
 Tyr Trp Val His Gly Gly Pro Arg Ser Leu Cys Asp Ser Cys Ser Leu  
                   85                                  90                                  95  
 Leu Pro Pro Cys Leu Asp Pro Ala Ser Ala Gln Lys Ala Asn Ser Leu  
                   100                                  105                                  110  
 Asp Ser Lys Gly Leu Pro Arg Pro Ile Ser Met Ser Cys Ser Cys Gln  
           115                                  120                                  125  
 Leu Pro Val Pro Ser Leu Asp Leu Ser Ser Cys Leu Ala Pro Ser Leu  
       130                                  135                                  140  
 Pro Thr Pro His Ile Phe Thr Asn Lys Arg Lys  
   145                                  150                                  155

<210> 653  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 653  
 Met Ala Leu Ser Val Leu Val Leu Leu Leu Leu Ala Val Leu Tyr Glu  
       1                                  5                                  10                                  15  
 Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp  
                   20                                  25                                  30

<210> 654  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 654  
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
       1                                  5                                  10                                  15  
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
                   20                                  25                                  30  
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
           35                                  40                                  45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
       50                                  55                                  60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
 65 70 75 80  
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
 85 90 95  
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys  
 100 105 110  
 Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys  
 115 120 125  
 Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn  
 130 135 140  
 Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser  
 145 150 155 160  
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln  
 165 170 175  
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp  
 180 185 190  
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe  
 195 200 205  
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe  
 210 215 220  
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His  
 225 230 235 240  
 Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala  
 245 250 255  
 Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr  
 260 265 270  
 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn  
 275 280 285  
 Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu  
 290 295 300  
 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu  
 305 310 315 320  
 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys  
 325 330 335  
 Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His  
 340 345 350  
 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val  
 355 360

<210> 655  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 655  
 Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr  
   1                  5                  10                  15  
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe  
                   20                  25                  30  
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln  
                   35                  40                  45  
 Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln  
           50                  55                  60  
 Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Asp  
   65                  70                  75                  80  
 Val Asn Lys Pro Gln Gly Arg Ala Pro Ala Cys Leu Gln Val Gln Tyr  
                   85                  90                  95  
 Asn Asp Ile Phe Lys Asn Arg Pro Ala Lys Val Phe Glu Phe Tyr Phe  
                   100                  105                  110  
 Ile Gln Glu Asn Pro Gln Leu Phe Lys Leu  
           115                  120

<210> 656  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 656  
 Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe  
   1                  5                  10                  15  
 Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser  
                   20                  25                  30  
 Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Cys  
                   35                  40                  45  
 Leu Leu Ala  
           50

<210> 657  
 <211> 72

<212> PRT  
<213> Homo sapiens

<400> 657

Met	Gly	Ser	Ala	Ala	Leu	Glu	Ile	Leu	Gly	Leu	Val	Leu	Cys	Leu	Val
1				5					10					15	
Gly	Trp	Gly	Gly	Leu	Ile	Leu	Ala	Cys	Gly	Leu	Pro	Met	Trp	Gln	Val
			20					25					30		
Thr	Ala	Phe	Leu	Asp	His	Asn	Ile	Val	Thr	Ala	Gln	Thr	Thr	Trp	Lys
		35					40					45			
Gly	Leu	Trp	Met	Ser	Cys	Val	Val	Gln	Ser	Thr	Gly	Thr	Cys	Ser	Ala
	50					55					60				
Lys	Cys	Thr	Thr	Arg	Cys	Trp	Leu								
65					70										

<210> 658  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 658

Met	Cys	Tyr	Leu	Leu	Leu	Leu	Ile	Gln	Thr	Ala	Glu	Leu	Leu	Ile	
1				5				10					15		
His	Pro	Gln	Gly	Leu	Gln	Ala	Val	Ser	Asn	Gly	Glu	Ser	Ala	Leu	Lys
			20					25					30		
Gly	Thr	Arg	Pro	Thr	Phe	Ser	Ser	Pro	Phe	Ile	Leu	Val	Thr	Glu	Gly
		35					40					45			
Arg	Lys	Glu	Trp	Glu	Gly	Val	Phe	Leu	Ser	Ser	Gly	Trp	Lys	Gly	Asn
	50					55					60				
Thr	Leu	Ser	Asn	Tyr	Tyr	Ile	Ser	Leu	Val	Phe	Tyr	Tyr	Ser	Arg	Ile
65					70					75					80
Leu	Gln	Pro	Tyr	Phe	Tyr	Cys	Leu	Trp	Gly	Lys	Leu	Glu	Met	Val	Thr
				85					90					95	
Leu	Ile	Arg	Ser	Val	Trp	Arg	Gly	Ile	Asn	Gly	Gly	Asp	Lys	Ile	Ser
		100						105					110		
Val	Gly	Phe	Gly	Lys	Cys										
			115												

<210> 659  
<211> 169  
<212> PRT  
<213> Homo sapiens

<400> 659

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser  
1 5 10 15  
Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly  
20 25 30  
Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln  
35 40 45  
Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys  
50 55 60  
Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys  
65 70 75 80  
Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro  
85 90 95  
Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu  
100 105 110  
Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly  
115 120 125  
Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala  
130 135 140  
Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala  
145 150 155 160  
Met Gln Thr Gly Ser Pro Ala Ser Thr  
165

<210> 660

<211> 47

<212> PRT

<213> Homo sapiens

<400> 660

Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly  
1 5 10 15  
Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly LeuMet Gln  
20 25 30  
Tyr Val Ala Gly Cys Ser Ser Ser Trp Glu Gly Lys Gln Trp Asn  
35 40 45

<210> 661

<211> 203

<212> PRT

<213> Homo sapiens

<400> 661

Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys  
1 5 10 15  
Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys  
20 25 30  
Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val  
35 40 45  
Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala  
50 55 60  
Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile  
65 70 75 80  
Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser  
85 90 95  
Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala  
100 105 110  
Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr  
115 120 125  
Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu  
130 135 140  
Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly  
145 150 155 160  
Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala  
165 170 175  
Pro Gly Leu Ser Val Arg Leu Leu Arg Asp Pro Arg Cys Pro Asp Pro  
180 185 190  
Gly Cys Thr Ala Ala Pro Cys His Ala Ala His  
195 200

<210> 662

<211> 123

<212> PRT

<213> Homo sapiens

<400> 662

Met His Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys Pro Ser  
1 5 10 15  
Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Val His Leu Asn Ile  
20 25 30  
Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg Cys Tyr

35                                      40                                      45  
 Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe Gln Tyr  
     50                                      55                                      60  
 Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly Leu Thr  
     65                                      70                                      75                                      80  
 Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe Asp Ser  
                                     85                                      90                                      95  
 Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg Ala Ala  
                                     100                                      105                                      110  
 Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu  
                                     115                                      120

<210> 663  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 663  
 Leu Gly Ser Leu Ser Thr Ala Pro Ser Ser Ala Leu Pro Thr Leu Gly  
     1                                      5                                      10                                      15  
 Ala Arg Arg Thr Arg Ser Lys  
                                     20

<210> 664  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 664  
 Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His  
     1                                      5                                      10                                      15  
 His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu  
                                     20                                      25                                      30  
 Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu  
                                     35                                      40                                      45  
 Arg Thr Leu Thr Ser Pro Arg Thr Gly Ser Leu Phe  
                                     50                                      55                                      60

<210> 665  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 665

Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
1 5 10 15  
Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
20 25 30  
Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
35 40 45  
Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
50 55 60  
Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly  
65 70 75 80  
Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys  
85 90 95  
Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser  
100 105 110  
Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly  
115 120 125  
Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys  
130 135 140  
Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile  
145 150 155 160  
Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His  
165 170 175

Cys Arg

<210> 666

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring amino acids

<400> 666

Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg  
1 5 10 15  
Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala  
20 25 30

Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu  
           35                          40                          45  
 Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr  
           50                          55                          60  
 Leu Lys Asp Thr Thr Ser Ser Ser Ala Asp Ser Thr Ile Met Asp  
           65                          70                          75                          80  
 Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln  
                           85                          90                          95  
 Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro  
                           100                          105                          110  
 Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr  
           115                          120                          125  
 Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp  
           130                          135                          140  
 Thr Thr Thr Leu Ser Glu Arg Pro SerPro Ser Thr Asp Val Gln Thr  
           145                          150                          155                          160  
 Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe  
                           165                          170                          175  
 Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala  
           180                          185                          190  
 Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg  
           195                          200                          205  
 Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg  
           210                          215

<210> 667  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<400> 667  
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
   1                          5                          10                          15  
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
           20                          25                          30  
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
           35                          40                          45  
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
           50                          55                          60  
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys

65		70		75		80									
Arg	Pro	Glu	Glu	Pro	Gly	His	Cys	Val	Ala	Gln	Ser	Glu	Val	Val	Lys
				85					90					95	
Glu	Gly	Cys	Ser	Ile	Tyr	Asn	Arg	Ser	Glu	Ala	Cys	Pro	Ala	Ala	His
			100					105					110		
His	His	Pro	Thr	Tyr	Glu	Pro	Lys	Thr	Val	Thr	Thr	Gly	Ser	Pro	Pro
			115				120					125			
Val	Pro	Glu	Ala	His	Ser	Pro	Gly	Phe	Asp	Gly	Ala	Ser	Phe	Ile	Gly
	130					135					140				
Gly	Val	Val	Leu	Val	Leu	Ser	Leu	Gln	Ala	Val	Ala	Phe	Phe	Val	Leu
145					150					155					160
His	Phe	Leu	Lys	Ala	Lys	Asp	Ser	Thr	Tyr	Gln	Thr	Leu			
			165						170						

<210> 668  
 <211> 210  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (139)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (187)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 668
Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
1 5 10 15
Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
20 25 30
Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
35 40 45
Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
50 55 60
Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
65 70 75 80
Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
85 90 95
Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His

	100		105		110										
His	His	Pro	Thr	Tyr	Glu	Pro	Lys	Thr	Val	Thr	Thr	Gly	Ser	Pro	Pro
	115						120					125			
Val	Pro	Glu	Ala	His	Ser	Pro	Gly	Phe	Asp	Xaa	Ala	Ser	Phe	Ile	Gly
	130					135					140				
Gly	Val	Val	Leu	Val	Leu	Ser	Leu	Gln	Ala	Val	Ala	Phe	Phe	Val	Leu
145					150					155					160
Thr	Ser	Ser	Arg	Pro	Arg	Thr	Ala	Pro	Thr	Arg	Arg	Cys	Glu	Tyr	Leu
			165						170					175	
Ala	Ser	Ser	Lys	Tyr	Leu	Ser	Pro	Ser	Ser	Xaa	Leu	Val	Pro	Ala	His
			180					185					190		
Val	Pro	Phe	Ser	Thr	Gln	Gly	Ala	Val	Phe	Ser	Thr	Gly	Lys	Pro	Ser
	195						200					205			
Gly	Arg														
	210														

<210> 669  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 669															
Met	Ile	Ser	Tyr	Ile	Val	Leu	Leu	Ser	Ile	Leu	Leu	Trp	Pro	Leu	Val
1				5					10					15	
Val	Tyr	His	Glu	Leu	Ile	Gln	Arg	Met	Tyr	Thr	Arg	Leu	Glu	Pro	Leu
			20					25					30		
Leu	Met	Gln	Leu	Asp	Tyr	Ser	Met	Lys	Ala	Glu	Ala	Asn	Ala	Leu	His
		35					40					45			
His	Lys	His	Asp	Lys	Arg	Lys	Arg	Gln	Gly	Lys	Asn	Ala	Pro	Pro	Gly
	50					55					60				
Gly	Asp	Glu	Pro	Leu	Xaa	Glu	Thr	Glu	Ser	Glu	Ser	Glu	Ala	Glu	Leu
65					70					75				80	
Ala	Gly	Phe	Ser	Pro	Val	Val	Asp	Val	Lys	Lys	Thr	Ala	Leu	Ala	Leu
				85					90					95	
Ala	Ile	Tyr	Arg	Leu	Arg	Ala	Val	Arg							
			100					105							

<210> 670  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 670  
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
   1                  5                  10                  15  
 Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr  
                   20                  25                  30  
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
                   35                  40                  45  
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly  
                   50                  55                  60  
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp  
   65                  70                  75                  80  
 Arg Ala Val Val Val Gln Met Ala Gln  
                   85

<210> 671  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 671  
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val  
   1                  5                  10                  15  
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp  
                   20                  25                  30  
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly  
                   35                  40                  45  
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys  
   50                  55                  60  
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly

65		70		75		80									
Arg	Pro	Pro	Tyr	Lys	Glu	Pro	Gln	Asp	Cys	Ser	His	Gly	Cys	His	Leu
				85					90					95	
Ser	Trp	Lys	Gly	Arg	Phe	Met	Gly	Phe	Pro	Gly	Thr	Pro	Arg	Leu	Ser
			100					105					110		
Trp	Pro	Arg	Gly	Lys	Arg	Trp	Leu	Leu	Gln	Glu	Phe	Asp	Leu	Ser	
			115				120					125			

<210> 672  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 672  
 Leu Gly Lys Pro Trp Arg Tyr Pro Thr  
 1 5

<210> 673  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 673  
 Leu Gln  
 1

<210> 674  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 674  
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly  
 1 5 10 15  
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys  
 20 25 30  
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe  
 35 40 45  
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val  
 50 55 60  
 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg  
 65 70 75 80  
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro

	85		90		95
Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Se	100		105		110
Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu	115		120		125
Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro	130		135		140
Cys Arg	145				

<210> 675  
 <211> 941  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (807)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (809)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (815)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (819)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 675  
 Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu  
 1 5 10 15  
 Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys  
 20 25 30  
 Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro  
 35 40 45  
 Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp  
 50 55 60  
 Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr  
 65 70 75 80

Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His  
 85 90 95  
 Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly  
 100 105 110  
 Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln  
 115 120 125  
 Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro  
 130 135 140  
 Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His  
 145 150 155 160  
 Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile  
 165 170 175  
 Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro  
 180 185 190  
 Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg  
 195 200 205  
 Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser  
 210 215 220  
 Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val  
 225 230 235 240  
 Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser  
 245 250 255  
 Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val  
 260 265 270  
 Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr  
 275 280 285  
 Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro  
 290 295 300  
 Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu  
 305 310 315 320  
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala  
 325 330 335  
 Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala  
 340 345 350  
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp  
 355 360 365  
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe  
 370 375 380

Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe  
385 390 395 400  
Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser  
405 410 415  
His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met  
420 425 430  
Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu  
435 440 445  
Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr  
450 455 460  
Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp  
465 470 475 480  
Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly  
485 490 495  
Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser His Trp His Gln  
500 505 510  
Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg  
515 520 525  
Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met  
530 535 540  
Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly  
545 550 555 560  
Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met  
565 570 575  
Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro  
580 585 590  
Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr  
595 600 605  
Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu  
610 615 620  
Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile  
625 630 635 640  
Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys  
645 650 655  
Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro  
660 665 670  
Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu  
675 680 685

Lys Arg Asp Met Asn Glu Val Glu Thr GlnPhe Lys Ala Phe Leu Ile  
 690 695 700  
 Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly  
 705 710 715 720  
 Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu LeuLeu Leu Ala Cys  
 725 730 735  
 Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg  
 740 745 750  
 Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro ValAsp Val Thr  
 755 760 765  
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe  
 770 775 780  
 Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln  
 785 790 795 800  
 Ile Glu Phe Ala Leu Cys Xaa Pro Xaa Asn Lys Glu Lys Leu Xaa Trp  
 805 810 815  
 Leu Leu Xaa Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe  
 820 825 830  
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu  
 835 840 845  
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe  
 850 855 860  
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn  
 865 870 875 880  
 Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser  
 885 890 895  
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile  
 900 905 910  
 Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys  
 915 920 925  
 Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met  
 930 935 940

<210> 676  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<400> 676  
 Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala ProGly Thr Glu

1		5		10		15									
Gly	Gln	Gln	Gln	Val	His	Gly	Glu	Lys	Lys	Glu	Ala	Pro	Ala	Val	Pro
			20					25					30		
Ser	Ala	Pro	Pro	Ser	Tyr	Glu	Glu	Ala	Thr	Ser	Gly	Glu	Gly	Met	Lys
		35					40					45			
Ala	Gly	Ala	Phe	Pro	Pro	Ala	Pro	Thr	Ala	Val	Pro	Leu	His	Pro	Ser
	50					55					60				
Trp	Ala	Tyr	Val	Asp	Pro	Ser	Ser	Ser	Ser	Ser	Tyr	Asp	Asn	Gly	Phe
65					70					75					80
Pro	Thr	Gly	Asp	His	Glu	Leu	Phe	Thr	Thr	Phe	Ser	Trp	Asp	Asp	Gln
				85					90					95	
Lys	Val	Arg	Arg	Val	Phe	Val	Arg	Lys	Val	Tyr	Thr	Ile	Leu	Leu	Ile
			100					105					110		
Gln	Leu	Leu	Val	Thr	Leu	Ala	Val	Val	Ala	Leu	Phe	Thr	Phe	Cys	Asp
		115					120					125			
Pro	Val	Lys	Asp	Tyr	Val	Gln	Ala	Asn	Pro	Gly	Trp	Tyr	Trp	Ala	Ser
		130				135					140				
Tyr	Ala	Val	Phe	Phe	Ala	Thr	Tyr	Leu	Thr	Leu	Ala	Cys	Cys	Ser	Gly
145					150					155					160
Pro	Arg	Arg	His	Phe	Pro	Trp	Glu	Pro	Asp	Ser	Pro	Asp	Arg	Leu	Tyr
				165					170					175	
Pro	Val	His	Gly	Leu	Pro	His	Trp	Asp	Ala	Val	Gln	Leu	Leu	Gln	His
			180					185					190		
His	Leu	Arg	Ala	Ala	Val	Pro	Gly	His	His	Gly	Pro	Cys	Leu	Pro	Leu
		195					200					205			
Ser	His	Arg	Leu	Gln	Leu	Pro	Asp	Gln	Val	Arg	Leu	His	Leu	Leu	Pro
		210				215					220				
Gly	Arg	Ala	Leu	Arg	Ala	Ser	His	Asp	Ser	Phe	Leu	Gln	Arg	Thr	His
225					230					235					240
Pro	Gly	His	Pro	Pro	Thr	Leu	Pro	Ile	Cys	Ala	Leu	Ala	Pro	Cys	Ser
				245					250					255	
Leu	Cys	Ser	Thr	Gly	Ser	Gly	Cys	Ile	Tyr	Ile	Val	Pro	Gly	Thr	
			260					265					270		

<210> 677  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 677

Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser  
1 5 10 15  
Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr  
20 25 30  
Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val  
35 40 45  
Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala  
50 55 60  
Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val Tyr Ala  
65 70 75 80  
Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln  
85 90 95  
Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu Tyr Ile  
100 105 110  
Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe  
115 120 125  
Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu  
130 135

<210> 678

<211> 157

<212> PRT

<213> Homo sapiens

<400> 678

Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu  
1 5 10 15  
Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg  
20 25 30  
Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile  
35 40 45  
Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe  
50 55 60  
Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys  
65 70 75 80  
Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro  
85 90 95  
His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln  
100 105 110

Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly  
115 120 125  
Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp  
130 135 140  
Asn Glu Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe  
145 150 155

<210> 679  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 679  
Phe Leu Ser Ser Trp Gln Arg Pro Ala Cys Gly Cys Gln Arg Pro Ala  
1 5 10 15  
Leu Pro Leu His Leu Gly Gly Ala Glu Gln Leu Gly Pro Ser Cys Pro  
20 25 30  
Gly Gly Trp Val Gln Thr Gln Ala Glu Asp Gln Pro Trp Pro Cys Pro  
35 40 45  
Ala Ile Cys Phe His Gln Ala Val Ser Pro Pro Trp Leu Pro Phe Ser  
50 55 60  
Leu Gln Ala Lys Val Leu Leu Ile Pro Thr Pro Leu Val Phe Ala Cys  
65 70 75 80  
Pro Ala Leu Leu Phe Ala Trp Arg Val Gly Gly Ala Gln Trp Gln Gly  
85 90 95  
Ile Ser Gly Pro Trp Gly Arg Gly Asp Gly Asn Met Cys Pro Thr Ala  
100 105 110  
Pro Ser Pro Pro Pro  
115

<210> 680  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 680  
Met Met Lys Asp Val Phe Phe Phe Leu Phe Leu Leu Ala Val Trp Val  
1 5 10 15  
Val Ser Phe Gly Val Ala Lys Gln Ala Ile Leu Ile His Asn Glu Arg  
20 25 30  
Arg Val Asp Trp Leu Phe Arg Gly Pro Ser Thr Thr Pro Thr Ser Pro  
35 40 45

Ser Ser Gly Arg Ser Arg Ala Thr Ser Thr Val  
 50 55

<210> 681  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 681  
 Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val  
 1 5 10 15  
 Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly  
 20 25 30  
 Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu  
 35 40 45

<210> 682  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 682  
 Ser Trp Val Ile Val Val Xaa Ile Trp Gly Tyr Leu Leu Glu Gly His  
 1 5 10 15  
 Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Xaa Pro Trp Lys Leu His  
 20 25 30  
 Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg Ile  
 35 40 45  
 Leu Gly Asn Ser Pro Cys Pro Val Leu Ile His Cys Ser Phe Ser Gly  
 50 55 60

<210> 683

<211> 14  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 683  
 Trp Lys Gly Leu Leu Glu Gly Ser Xaa Glu Ala Thr Met Xaa  
 1 5 10

<210> 684  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 684  
 Pro Leu Gly Arg Glu Pro Leu Ala Gly Phe Leu Ser Phe Leu Ser Phe  
 1 5 10 15  
 Ser Leu Leu Trp Cys Leu Glu Ala Phe Pro Arg Leu Gln Phe Leu Thr  
 20 25 30  
 Thr Leu Thr Asp Phe Ala Ile Val Leu Ser Pro Pro Leu Ser Phe Pro  
 35 40 45  
 Lys Leu Thr Leu Trp Arg Leu Ile Lys Arg Lys Asn His Arg Pro Gly  
 50 55 60  
 Ala Xaa Leu Thr Pro Arg Arg Arg Ala Asn His Leu Arg Cys Gly Val  
 65 70 75 80  
 Arg Asp Gln Pro Asp Gln Asn Arg Glu Thr Pro Ser Leu Leu Asn Asn  
 85 90 95  
 Thr Lys Leu Ala Gly Arg Gly Gly Ala Arg Leu  
 100 105

<210> 685  
 <211> 127  
 <212> PRT

<213> Homo sapiens

<400> 685

```
Met  Pro  Arg  Ala  Pro  Trp  Arg  Ile  Pro  Leu  Cys  Ala  Leu  Pro  Thr  Leu
  1              5              10              15

Cys  Leu  Gly  Ser  Pro  Leu  Pro  Ser  Gln  Pro  Thr  His  Pro  Ile  Phe  Tyr
              20              25              30

Asp  His  Arg  Ala  Pro  Thr  Trp  Lys  Met  Ala  His  Pro  Gly  Gly  Pro  Arg
              35              40              45

Ser  Ser  His  Ser  Pro  Arg  Gly  Pro  Gly  Gly  His  Pro  Ala  Leu  Arg  Gln
  50              55              60

Arg  Leu  Pro  Cys  Arg  Arg  Gly  Glu  Pro  Glu  Thr  Ala  Leu  Cys  Ser  Ser
  65              70              75              80

Ala  Pro  Gly  Ala  Gly  Phe  Ala  Glu  Pro  Pro  Cys  Lys  Ala  Ser  Pro  Gly
              85              90              95

Trp  Gly  Pro  Pro  Ser  Arg  Gly  Pro  Gln  Gly  Asp  Arg  Ser  Gln  Gly  Glu
              100             105             110

Trp  Leu  Pro  Ala  Leu  Gly  Thr  Pro  Cys  Gly  Gly  Pro  Asp  Asp  Ser
  115             120             125
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<210> 686

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring amino acids

<400> 686

```
Met  Pro  Arg  Ala  Pro  Trp  Arg  Ile  Pro  Leu  Cys  Ala  Leu  Pro  Thr  Leu
  1              5              10              15

Cys  Leu  Gly  Ser  Pro  Leu  Pro  Ser  Gln  Pro  Thr  His  Pro  Ile  Xaa  Tyr
              20              25              30

Asp  His  Arg  Ala  Pro  Thr  Trp  Lys  Met  Ala  His  Pro  Gly  Gly  Pro  Arg
              35              40              45

Ser  Ser  His  Ser  Pro  Arg  Thr  Trp  Xaa  Thr  Pro  Ser  Ser  Gln  Thr  Lys
  50              55              60
```

Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys  
65 70 75 80

Thr Arg Ser Arg Phe Cys Gly Thr ProMet  
85 90

<210> 687  
<211> 308  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (185)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 687  
Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro  
1 5 10 15  
Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His  
20 25 30  
Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys  
35 40 45  
Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr  
50 55 60  
His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys  
65 70 75 80  
Asp Leu Cys Leu Arg Val Xaa Val His Leu Ala Val His Gly His Trp  
85 90 95  
Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly  
100 105 110  
Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser  
115 120 125  
Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val  
130 135 140  
Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr  
145 150 155 160  
Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr  
165 170 175

Thr Gln Pro Arg Tyr Glu Lys Glu Xaa Asn His Thr Gln Gln Leu Pro  
 180 185 190  
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala  
 195 200 205  
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val  
 210 215 220  
 Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn  
 225 230 235 240  
 Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly  
 245 250 255  
 Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys  
 260 265 270  
 Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Arg Thr Ser Ala  
 275 280 285  
 Pro Ser Gly Arg Thr Pro Ala His Thr Arg Thr Ser Gly Lys Pro Pro  
 290 295 300  
 Asp Cys Asp Cys  
 305

<210> 688  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 688  
 Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln ~~Met~~  
 1 5 10 15  
 Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu  
 20 25 30  
 Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser  
 35 40 45  
 Val Ser Asn Thr Ile Cys Ile  
 50 55

<210> 689  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 689  
 Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala  
 1 5 10 15

Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly  
 20 25 30

Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly  
 35 40

<210> 690  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 690  
 Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu  
 1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu  
 20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro  
 35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ad  
 50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu  
 65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu  
 85 90 95

Leu Pro

<210> 691  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 691  
 Leu Pro Arg Pro Cys Ala Pro Ser Pro Val Trp Arg Gln Val Gly Arg  
 1 5 10 15

Glu Glu Ala Ser Leu Leu  
 20

<210> 692  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 692  
 Cys Ala Val Arg Phe Arg Glu Gln Xaa Ala Pro Glu Arg Val Phe Leu  
 1 5 10 15  
 Pro Thr Arg Gly Arg Lys Ser Glu Pro  
 20 25

<210> 693  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 693  
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
 1 5 10 15  
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His  
 20 25 30  
 Ile Cys Ser Gln Arg Asn Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa  
 35 40 45  
 Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro  
 50 55 60  
 His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly Asn Gly Lys  
 65 70 75 80  
 Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe  
 85 90 95

Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe  
100 105

<210> 694  
<211> 73  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 694  
Met Phe Tyr Lys Leu Thr Leu Ile Leu Qs Glu Leu Ser Val Ala Gly  
1 5 10 15  
Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His  
20 25 30  
Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Qs Leu Leu Lys Ala Xaa  
35 40 45  
Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser  
50 55 60  
Pro Pro Leu Xaa Ser Asp Pro Lys Arg  
65 70

<210> 695  
<211> 81  
<212> PRT

<213> Homo sapiens

<400> 695

Met Ser Lys Arg Ser Ala Ser Phe Ile Leu Leu Pro Leu Leu Phe Leu  
1 5 10 15  
Lys Gly Ser Phe Ala Lys Leu Asn Ala Arg Ile Ser Asp CysLeu Glu  
20 25 30  
Glu Arg Tyr Cys His Asn Leu Trp Met Val Phe Gln Gly Cys Val Ile  
35 40 45  
Thr Glu Leu His Leu Ser Arg Met Ser Lys Thr Leu Ser Ser Leu Cys  
50 55 60  
Tyr Asp Phe Val Ile Asn Val Tyr Ile Phe Phe Lys Phe Leu Asp Ile  
65 70 75 80  
Thr

<210> 696

<211> 313

<212> PRT

<213> Homo sapiens

<400> 696

Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr  
1 5 10 15  
Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg  
20 25 30  
Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr  
35 40 45  
Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr  
50 55 60  
Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile  
65 70 75 80  
Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu  
85 90 95  
Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr  
100 105 110  
Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile  
115 120 125  
Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr  
130 135 140  
Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr

145		150		155		160
Leu Phe Ala Tyr	Leu Met Cys Leu TyrGly	Asn His Lys Thr Ser Ala				
	165	170			175	
Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp						
	180	185			190	
Ala Val Phe Cys Ala Gly Asn Val Ile AlaGln Lys Leu Thr Glu Ala						
	195	200			205	
Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys						
	210	215			220	
Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu AlaTyr						
	225	230			235	240
Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro						
	245	250			255	
Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val ValAsn Gly						
	260	265			270	
Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe						
	275	280			285	
Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro						
	290	295			300	
His Leu Leu Ser Gln Gln Ile Asn Lys						
	305	310				

<210> 697

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring amino acids

<400> 697

Met Ala Gln Leu Glu Gly Tyr Xaa Phe Ser Aa Ala Leu Ser Cys Thr
1 5 10 15

Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg  
                   20                                  25                                  30  
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr  
                   35                                  40                                  45  
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr  
                   50                                  55                                  60  
 Leu Pro Gly Leu Tyr Leu Val Ser Xaa Gly Val Xaa Lys Pro Ala Ile  
                   65                                  70                                  75                                  80  
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu  
                                   85                                  90                                  95  
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Trp  
                                   100                                  105                                  110  
 Leu Leu Phe Cys Lys Tyr Asn Pro Glu Thr Arg Leu Pro Gln Val Ser  
                   115                                  120                                  125  
 Arg Glu Ser Cys Gln His  
                   130

<210> 698

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring amino acids

<400> 698

Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu  
1 5 10 15  
Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu  
20 25 30  
Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu  
35 40 45  
Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys  
50 55 60  
Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu  
65 70 75 80  
Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp  
85 90 95  
Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr  
100 105 110  
Phe Ser Ser Gln Val Leu Leu Pro Leu Leu  
115 120

<210> 699

<211> 43

<212> PRT

<213> Homo sapiens

<400> 699

Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys  
1 5 10 15  
Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu  
20 25 30  
Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn  
35 40

<210> 700

<211> 2

<212> PRT

<213> Homo sapiens

<400> 700

Leu His  
1

<210> 701

<211> 166

<212> PRT  
<213> Homo sapiens

<400> 701

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe  
1 5 10 15  
Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala  
20 25 30  
Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr  
35 40 45  
His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg  
50 55 60  
Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser  
65 70 75 80  
Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser  
85 90 95  
Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu  
100 105 110  
Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser  
115 120 125  
Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu  
130 135 140  
Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile  
145 150 155 160  
Lys Ala Phe Pro Asp Ser  
165

<210> 702  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 702

Gly Leu Phe Leu Gly Gln Met Asn Trp Ile Phe Ser Cys Cys Phe Ser  
1 5 10 15  
Asn Asn Val Thr Thr Val Lys Lys Arg  
20 25

<210> 703  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 703

Arg Leu Leu Asn Leu Ser Val Pro Met Phe Thr Phe Ile Val Val Lys  
1 5 10 15

Arg Tyr Ala Thr  
20

<210> 704

<211> 11

<212> PRT

<213> Homo sapiens

<400> 704

Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val  
1 5 10

<210> 705

<211> 108

<212> PRT

<213> Homo sapiens

<400> 705

Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val  
1 5 10 15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile  
20 25 30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly  
35 40 45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro  
50 55 60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser  
65 70 75 80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met  
85 90 95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro  
100 105

<210> 706

<211> 130

<212> PRT

<213> Homo sapiens

<400> 706

Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly

1                      5                      10                      15  
 Cys His Cys His Leu Gly His Val GlyArg His Gln His Phe Val Val  
                             20                      25                      30  
 Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr  
                             35                      40                      45  
 Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly GlnArg Glu Gly Pro  
                             50                      55                      60  
 Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu  
                             65                      70                      75                      80  
 Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr SerAla His  
                             85                      90                      95  
 Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg  
                             100                      105                      110  
 Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala AsnThr  
                             115                      120                      125  
 Leu Asn  
                             130

<210> 707  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 707  
 Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg  
                             1                      5                      10                      15  
 Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala  
                             20                      25                      30  
 Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu  
                             35                      40                      45  
 Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu  
                             50                      55                      60  
 Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro

65                                70                                75                                80  
 Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu  
                               85                                90                                95  
 Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly  
                               100                                105                                110  
 Pro Gly Ala Leu Val Thr Trp Thr Pro Gly  
                               115                                120

<210> 708  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 708  
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln  
   1                              5                              10                              15  
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Gln Trp Gly Ala Arg  
                               20                              25                              30  
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile  
                               35                              40                              45  
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser  
                               50                              55                              60  
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp  
   65                              70                              75                              80  
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr  
                               85                              90                              95  
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn  
                               100                              105                              110  
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser  
                               115                              120                              125  
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala  
                               130                              135                              140  
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu  
   145                              150                              155                              160  
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys  
                               165                              170                              175  
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr  
                               180                              185                              190  
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His  
                               195                              200                              205

Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val  
 210 215 220

Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile  
 225 230 235 240

Gly Tyr Gln

<210> 709  
 <211> 154  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (150)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 709  
 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val  
 1 5 10 15

Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln  
 20 25 30

Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg  
 35 40 45

Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile  
 50 55 60

Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu  
 65 70 75 80

Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe  
 85 90 95

Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met  
 100 105 110

Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln  
 115 120 125

Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val  
 130 135 140

Leu His Val Ser Trp Xaa Asp Ala Arg Ala  
 145 150

<210> 710  
 <211> 57

<212> PRT  
<213> Homo sapiens

<400> 710

```
Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
 1              5              10              15

Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
          20              25              30

Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala
          35              40              45

Trp Phe Ile Ala Gly Ile Phe Leu Leu
 50              55
```

<210> 711  
<211> 107  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring amino acids

<400> 711

```
Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1              5              10              15

Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
          20              25              30

Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
          35              40              45

Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
          50              55              60

Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
          65              70              75              80

Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile
          85              90              95

Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
          100              105
```

<210> 712  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 712

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
1 5 10 15

Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser  
20 25 30

Phe Val Cys Ser Cys  
35

<210> 713

<211> 46

<212> PRT

<213> Homo sapiens

<400> 713

Met Lys Ser Gln Cys Tyr Ser Pro Ser Tyr Phe Ala Phe Phe Cys Leu  
1 5 10 15

Val Phe Phe Gln Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His  
20 25 30

Val Leu Cys Arg Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys  
35 40 45

<210> 714

<211> 442

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (364)

<223> Xaa equals any of the naturally occurring amino acids

<400> 714

Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr  
1 5 10 15

Ser Ser Arg Gly Ala Gly Cys Cys Cys Cys Trp Ala Arg Trp Arg Arg  
20 25 30

Ala Val His Thr Ala Arg Gly Leu Arg Gly Arg Pro Arg Arg Gln Leu  
35 40 45

Leu Arg Pro Leu Arg Pro Ala Gln Gly Leu Ala Pro Gly Arg His Arg  
50 55 60

Leu Arg Pro Ala Val Leu Pro Leu His Leu Gln Pro Leu Pro Gly Leu  
65 70 75 80

Trp Gly Gly His Ala Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro Phe  
85 90 95



Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val Gly  
405 410 415

Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr Arg  
420 425 430

Leu Arg Arg Trp Asp Arg Asp Ala Arg Pro  
435 440

<210> 715  
<211> 309  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 715  
Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg  
1 5 10 15

Ser Tyr Gly Ala Ala Trp Leu Leu Leu XaaPro Ala Gly Ser Ser Arg  
20 25 30

Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln  
35 40 45

Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val ValGly Val Gly  
50 55 60

Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg  
65 70 75 80

Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala ProAla  
85 90 95

Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala  
100 105 110

Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn  
115 120 125

Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu  
 130 135 140  
 Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly  
 145 150 155 160  
 Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg  
 165 170 175  
 Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala  
 180 185 190  
 Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala  
 195 200 205  
 Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala  
 210 215 220  
 Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val  
 225 230 235 240  
 Tyr Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val  
 245 250 255  
 Met Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg  
 260 265 270  
 Ala Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly  
 275 280 285  
 Val Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro  
 290 295 300  
 Thr Arg Leu Arg Arg  
 305

<210> 716  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 716

Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg  
1 5 10 15  
Ser Tyr Gly Ala Ala Trp Leu Leu Leu Xaa Pro Ala Gly Ser Ser Arg  
20 25 30  
Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln  
35 40 45  
Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly  
50 55 60  
Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg  
65 70 75 80  
Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala  
85 90 95  
Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala  
100 105 110  
Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn  
115 120 125  
Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu  
130 135 140  
Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly  
145 150 155 160  
Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg  
165 170 175  
Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala  
180 185 190  
Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala  
195 200 205  
Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala  
210 215 220  
Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Leu Ser Cys  
225 230 235 240  
Thr Ala Pro

<210> 717

<211> 148

<212> PRT

<213> Homo sapiens

<400> 717

Met Ala Gly Ser Pro Leu Leu Trp Gly Pro Arg Ala Gly Gly Val Gly  
1 5 10 15  
Leu Leu Val Leu Leu Leu Leu Gly Leu Phe Arg Pro Pro Pro Ala Leu  
20 25 30  
Cys Ala Arg Pro Val Lys Glu Pro Arg Gly Leu Ser Ala Ala Ser Pro  
35 40 45  
Pro Leu Ala Arg Leu Ala Leu Leu Ala Ala Ser Gly Gly Gln Cys Pro  
50 55 60  
Glu Val Arg Arg Arg Gly Arg Cys Arg Pro Gly Ala Gly Ala Gly Ala  
65 70 75 80  
Ser Ala Gly Ala Glu Arg Gln Glu Arg Ala Arg Ala Glu Ala Gln Arg  
85 90 95  
Leu Arg Ile Ser Arg Arg Ala Ser Trp Arg Ser Cys Cys Ala Ser Gly  
100 105 110  
Ala Pro Pro Ala Thr Leu Ile Arg Leu Trp Ala Trp Thr Thr Thr Pro  
115 120 125  
Thr Arg Leu Gln Arg Ser Ser Leu Ala Leu Cys Ser Ala Pro Ala Leu  
130 135 140  
Thr Leu Pro Pro  
145

<210> 718

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring amino acids

<400> 718

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys  
1 5 10 15  
Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala  
20 25 30  
Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala  
35 40 45

Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Pro Xaa Asp Thr Leu  
50 55 60  
Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe  
65 70 75 80  
Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu  
85 90

<210> 719  
<211> 190  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 719  
Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr  
1 5 10 15  
Arg Pro Ala Ser Ala Ala Pro Met Xaa Gly Pro Glu Leu Ala Gln His  
20 25 30  
Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala  
35 40 45  
Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg  
50 55 60  
Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu  
65 70 75 80  
Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu  
85 90 95  
Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr  
100 105 110  
Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp  
115 120 125  
Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro  
130 135 140  
Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu  
145 150 155 160  
Pro Thr Ser Tyr Gly Pro His Arg Pro Arg Gln Arg Gln Arg Arg Glu  
165 170 175  
Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg

180

185

190

<210> 720  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 720  
 Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu  
     1                    5                    10                    15  
 Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr  
                     20                    25                    30  
 Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys  
             35                    40                    45  
 Ile Ser Ala Ala Tyr Val Leu Ala Pro Leu Gln Asn Pro Val Ser Ser  
     50                    55                    60  
 Leu  
   65

<210> 721  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (172)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 721  
 Gly Gly Glu Glu Glu Gly Glu Glu Gly Ala Glu Ile Ser Gly Leu Gly  
     1                    5                    10                    15  
 Ala Gly Arg Arg Ser Ala Pro Ile Ala Val Gly Leu Gly Phe Leu Gly  
             20                    25                    30  
 Val Gly Gly Arg Gly Gly Ser Asp Met Glu Ala Asn Gly Ser Gln Gly  
     35                    40                    45

Thr Ser Gly Ser Ala Asn Asp Ser Gln His Asp Pro Gly Lys Met Phe  
 50 55 60  
 Ile Gly Gly Leu Ser Trp Gln Thr Ser Pro Asp Ser Leu Arg Asp Tyr  
 65 70 75 80  
 Phe Ser Lys Phe Gly Glu Ile Arg Glu Cys Met Val Met Arg Asp Pro  
 85 90 95  
 Thr Thr Lys Arg Ser Arg Gly Phe Gly Phe Val Thr Phe Ala Asp Pro  
 100 105 110  
 Ala Ser Val Asp Lys Val Leu Gly Gln Pro His His Glu Leu Asp Ser  
 115 120 125  
 Lys Thr Ile Asp Pro Lys Val Ala Phe Pro Arg Arg Ala Gln Pro Lys  
 130 135 140  
 Met Val Thr Arg Thr Lys Lys Ile Phe Val Gly Gly Leu Ser Ala Asn  
 145 150 155 160  
 Thr Val Val Glu Asp Val Lys Gln Tyr Phe Glu Xaa Phe Xaa Lys Val  
 165 170 175  
 Glu Asp Ala Met Leu Met Phe Asp Lys Thr Thr Asn Arg His Arg Gly  
 180 185 190  
 Phe Gly Phe Val Thr Phe Glu Asn Glu Asp Val Val Glu Lys Val Cys  
 195 200 205  
 Glu Ile His Phe His Glu Ile Asn Asn Lys Met Val Glu Cys Lys Lys  
 210 215 220  
 Ala Gln Pro Lys Glu Val Met Phe Pro Pro Gly Thr Arg Gly Arg Ala  
 225 230 235 240  
 Arg Gly Leu Pro Tyr Thr Met Asp Ala Phe Met Leu Gly Met Gly Met  
 245 250 255  
 Leu Gly Glu Ser Gly Gln Asp Arg Arg Ser Pro Trp Thr Gly Arg Ala  
 260 265 270  
 Met Glu Ala Ser Thr Pro Asn Trp Val Thr Tyr Gln Trp Gly Lys Leu  
 275 280 285  
 Leu His Leu Ser Lys Pro Gln Phe Pro Cys Leu  
 290 295

<210> 722  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 722  
 Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu

1	5	10	15
Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu			
20	25	30	
Leu Cys Gly Trp Lys Leu Asn Val Ile Met Met Cys Val Arg Cys Leu			
35	40	45	
His Ser Ala Trp Arg Tyr			
50			

<210> 723  
 <211> 306  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (180)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (182)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (188)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (208)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (210)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (218)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (219)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 723  
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala  
   1                  5                  10                  15  
  
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu  
                   20                  25                  30  
  
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val  
                   35                  40                  45  
  
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser  
   50                  55                  60  
  
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala  
   65                  70                  75                  80  
  
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp  
                   85                  90                  95  
  
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser  
                   100                  105                  110  
  
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val  
   115                  120                  125  
  
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile  
   130                  135                  140  
  
 Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly  
   145                  150                  155                  160  
  
 Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His  
                   165                  170                  175  
  
 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg  
                   180                  185                  190  
  
 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa  
   195                  200                  205  
  
 Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser  
   210                  215                  220  
  
 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro  
   225                  230                  235                  240  
  
 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys  
                   245                  250                  255  
  
 Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln  
   260                  265                  270

Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Me Pro  
 275 280 285

Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys  
 290 295 300

Glu Lys  
 305

<210> 724  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 724  
 Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp  
 1 5 10 15

Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His  
 20 25 30

Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg  
 35 40 45

Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile  
 50 55 60

<210> 725  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 725  
 Met Ser Phe Pro His Ala Ser Thr Leu Pro Phe His Lys Leu Ser Asp  
 1 5 10 15

Leu Gln His Thr Leu Pro Asn His Gln Gly  
 20 25

<210> 726  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring amino acids

<400> 726

Val	His	Ala	Xaa	Thr	Pro	Phe	Ala	Gly	Xaa	Cys	Phe	Asp	Pro	Val	Ser
1				5					10					15	

Leu	Tyr	Trp	Cys	Tyr	Xaa	Asn	Pro	Gly	Thr	His	Cys	Tyr	Pro	Thr	Leu
			20						25					30	

Arg	Gly	Xaa	Glu	Gln	Arg	Xaa	Pro	Ser	Xaa	Arg	Ser	His	Ile	Val	Leu
		35					40					45			

Arg	Ser
	50

<210> 727

<211> 957

<212> PRT

<213> Homo sapiens

<400> 727

Met	Ala	Leu	Leu	His	Trp	Gly	Ala	Leu	Trp	Arg	Gln	Leu	Ala	Ser	Pro
1				5					10					15	

Cys	Gly	Ala	Trp	Ala	Leu	Arg	Asp	Thr	Pro	Ile	Pro	Arg	Trp	Lys	Leu
			20						25					30	

Ser	Ser	Ala	Glu	Thr	Tyr	Ser	Arg	Met	Arg	Leu	Lys	Leu	Val	Pro	Asn
			35				40					45			

His His Phe Asp Pro His Leu Glu Ala Ser Ala Bu Arg Asp Asn Leu  
 50 55 60  
 Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala  
 65 70 75 80  
 Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Bu Gln Glu  
 85 90 95  
 Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro Met Glu  
 100 105 110  
 Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Aa Glu  
 115 120 125  
 Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val  
 130 135 140  
 Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu  
 145 150 155 160  
 Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu  
 165 170 175  
 Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu  
 180 185 190  
 Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys  
 195 200 205  
 Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln  
 210 215 220  
 Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser  
 225 230 235 240  
 Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg  
 245 250 255  
 Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val  
 260 265 270  
 Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile  
 275 280 285  
 Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp  
 290 295 300  
 Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala  
 305 310 315 320  
 Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His  
 325 330 335  
 Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly  
 340 345 350

Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly  
 355 360 365  
 Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val  
 370 375 380  
 Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser  
 385 390 395 400  
 Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys  
 405 410 415  
 Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln  
 420 425 430  
 Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly  
 435 440 445  
 Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln  
 450 455 460  
 Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His  
 465 470 475 480  
 Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala  
 485 490 495  
 Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val  
 500 505 510  
 Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly  
 515 520 525  
 Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro  
 530 535 540  
 His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg  
 545 550 555 560  
 Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys  
 565 570 575  
 Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala  
 580 585 590  
 Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro  
 595 600 605  
 Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser  
 610 615 620  
 Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys  
 625 630 635 640  
 Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro  
 645 650 655

Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro  
 660 665 670  
 Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg  
 675 680 685  
 Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His  
 690 695 700  
 Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu  
 705 710 715 720  
 Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His  
 725 730 735  
 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu  
 740 745 750  
 Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu  
 755 760 765  
 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr  
 770 775 780  
 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr  
 785 790 795 800  
 Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile  
 805 810 815  
 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr  
 820 825 830  
 Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro  
 835 840 845  
 Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu  
 850 855 860  
 Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu  
 865 870 875 880  
 Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val  
 885 890 895  
 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly  
 900 905 910  
 Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser  
 915 920 925  
 Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val  
 930 935 940  
 Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg  
 945 950 955

<210> 728  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 728  
 Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro  
   1                  5                  10                  15  
 Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu  
                   20                  25                  30  
 Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr  
                   35                  40                  45  
 Arg Pro Ile Pro Ser Phe Leu Lys Ile  
                   50                  55

<210> 729  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 729  
 Gln Val Ser Leu Pro Thr Arg Leu Leu Gln Met Pro Gly Met Gly Leu  
   1                  5                  10                  15  
 Asp Ser Arg Phe Gln Ala Trp Xaa Pro Ser Pro Tyr Leu Gly Pro Gln  
                   20                  25                  30  
 Pro Arg Ala Pro Arg Pro Gly Leu Gln Pro Gly Pro Ser Leu Arg Gly  
                   35                  40                  45  
 Ala Glu Phe Arg Glu Ser Cys Pro Arg Ser Gln Lys Arg Gly Arg Glu  
                   50                  55                  60  
 Xaa Gly Arg Pro Cys Pro Gly Cys Arg Pro Gly Gly Trp Gly Leu Pro  
   65                  70                  75                  80  
 Ala Arg Leu Gly Gln Pro Gln Leu Gln Thr Gly Pro Gly  
                   85                  90

<210> 730  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 730  
 Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro  
           1                  5                  10                  15  
 Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly  
                   20                  25                  30  
 Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn  
                   35                  40                  45  
 Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr  
           50                  55                  60  
 Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro  
           65                  70                  75                  80  
 Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr  
                   85                  90                  95  
 Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser  
                   100                  105                  110  
 Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp  
           115                  120                  125  
 Thr Cys Gln Leu Glu Val Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn  
           130                  135                  140  
 Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp  
           145                  150                  155                  160  
 Cys Pro Ser Met Gln Glu Gln His Ser Xaa Glu Arg  
                   165                  170

<210> 731  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 731  
 Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro  
           1                  5                  10                  15  
 Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly

20 25 30  
 Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn  
 35 40 45  
 Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr  
 50 55 60  
 Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro  
 65 70 75 80  
 Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr  
 85 90 95  
 Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Ser Arg Pro Phe Pro  
 100 105 110  
 Gly Pro Ala Asp Gln Pro Asn Pro Leu Ala Ser Cys Thr Gln Gln Thr  
 115 120 125  
 Pro Val Ser  
 130

<210> 732  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 732  
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr  
 1 5 10 15  
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr  
 20 25 30  
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val  
 35 40 45  
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser  
 50 55 60  
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala  
 65 70 75 80  
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val  
 85 90 95  
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu  
 100 105 110  
 Phe Phe His His Phe Tyr His His Gln  
 115 120

<210> 733  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 733  
 Met Gly Ala His Ser Phe Gly Phe Gln Leu ~~He~~ Met Ser Val Ser Val  
           1                  5                  10                  15  
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe  
                   20                  25                  30  
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln ~~Qs~~ Cys Ser His Cys  
                   35                  40                  45  
 Ser

<210> 734  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 734  
 Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn  
           1                  5                  10                  15  
 Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly  
                   20                  25                  30  
 Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser  
                   35                  40                  45  
 Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr  
           50                  55                  60  
 His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg  
           65                  70                  75

<210> 735  
 <211> 484  
 <212> PRT  
 <213> Homo sapiens

<400> 735  
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu  
           1                  5                  10                  15

Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
                   20                  25                  30  
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg  
                   35                  40                  45  
 Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
                   50                  55                  60  
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
                   65                  70                  75                  80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
                   85                  90                  95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
                   100                  105                  110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
                   115                  120                  125  
 Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu  
                   130                  135                  140  
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser  
                   145                  150                  155                  160  
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala  
                   165                  170                  175  
 Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val  
                   180                  185                  190  
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala  
                   195                  200                  205  
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp  
                   210                  215                  220  
 Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val  
                   225                  230                  235                  240  
 Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe  
                   245                  250                  255  
 Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg  
                   260                  265                  270  
 Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu  
                   275                  280                  285  
 Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala  
                   290                  295                  300  
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val  
                   305                  310                  315                  320

Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr  
                           325                          330                          335  
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe  
                           340                          345                          350  
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser  
                           355                          360                          365  
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys  
                           370                          375                          380  
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln  
 385                          390                          395                          400  
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe  
                           405                          410                          415  
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu  
                           420                          425                          430  
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala  
                           435                          440                          445  
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn  
                           450                          455                          460  
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly  
 465                          470                          475                          480  
 Gln Ile His Arg

<210> 736  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE

<222> (134)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (183)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (255)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 736  
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Leu Trp Pro Leu Leu  
   1                  5                  10                  15  
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
                   20                  25                  30  
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg  
                   35                  40                  45  
 Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
   50                  55                  60  
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
   65                  70                  75                  80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
                   85                  90                  95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
                   100                  105                  110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
   115                  120                  125  
 Val Lys Ile Glu Phe Xaa Leu Gln Thr His Ser Asp Lys Gln Ser Leu  
   130                  135                  140  
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser  
   145                  150                  155                  160  
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala  
                   165                  170                  175

Gly Ala Arg Gly Pro Thr Xaa Asn Ile Pro Lys Val Ala Ile Ile Val  
 180 185 190  
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala  
 195 200 205  
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Xaa Ala Xaa  
 210 215 220  
 Met Glu Ser Leu Gln Asp Glu Trp Pro Ala Lys Pro Leu Asp Glu His  
 225 230 235 240  
 Val Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Pro Ser Xaa Arg  
 245 250 255  
 Phe Gln Glu Thr Leu Leu Arg Ser Trp Asn  
 260 265

<210> 737  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 737  
 Val Leu Leu Ile Leu  
 1 5

<210> 738  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 738  
 Lys Met His Phe Asn Lys Asn Lys Ser Ile Leu Lys Ser Phe Ser Phe  
 1 5 10 15  
 Val Arg Gly Asn Met Asn Glu Ile His Ser Tyr Leu Lys Thr Glu Tyr  
 20 25 30  
 Phe Thr Ala Lys Thr Leu Asn Ile Ser Arg Ala Tyr His Ile Leu Asn  
 35 40 45  
 Thr Leu Trp Ser Cys Ser Tyr Phe Asn Ile Pro Gly Ser Gly Gly Gln  
 50 55 60  
 Leu Ala Cys Leu Trp Leu Arg Ile Cys Phe His AlaCys Phe Leu Ser  
 65 70 75 80  
 Phe Phe Tyr Leu

<210> 739  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 739  
 Leu Gly Gly Tyr Ala Leu Ser Xaa Xaa Xaa Asn Arg Val Thr Asp Xaa  
   1                  5                  10                  15  
 Val Met Ile Tyr Phe Phe Ile Ile Ile Val Glu Tyr Phe Tyr Gly Lys  
                   20                  25                  30  
 Ile Phe Val Val Leu Ile Ile Pro Ile Lys Ile Met Pro Asn Thr Lys  
                   35                  40                  45  
 Tyr Glu Phe Tyr Asp Val His Phe Val Leu Gly Ile Lys Arg Lys Lys  
   50                  55                  60  
 His Thr Ser Trp Lys Ser Val Ser Cys Phe Leu Leu Leu  
   65                  70                  75

<210> 740  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 740  
 Thr Tyr Ser Phe Cys Val Cys Glu Arg Ala Phe Val Phe Gly Ser Val  
   1                  5                  10                  15  
 Pro Arg Ala Glu Val Glu Gln Gly Cys Thr Tyr His Gly Lys Gly Gly  
                   20                  25                  30  
 Arg Lys Glu Asn Trp Ile Ala Cys Asp Leu Trp Trp Asn Leu Phe Leu  
   35                  40                  45

Leu Pro Arg Pro Phe Arg Pro Cys Leu Ile Ser Val Gly His Phe Arg  
     50                    55                    60  
 Leu Trp Gln Gly Arg Ala Gly Leu Gln Ser Glu Val Pro Ala Ser Ser  
     65                    70                    75                    80  
 Leu Glu His Asn

<210> 741  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (157)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 741  
 Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile  
     1                    5                    10                    15  
 Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val  
             20                    25                    30  
 Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg  
             35                    40                    45  
 Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val  
     50                    55                    60  
 Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys  
     65                    70                    75                    80

Pro Ser Ser Pro Arg Pro Arg Gly Ser AlaAla Ser Pro Ala Pro Gly  
                     85                    90                    95  
 Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg  
                     100                    105                    110  
 Glu Asn His Arg Pro Lys Lys Pro Lys Ser XaaThr Arg Cys Leu Val  
                     115                    120                    125  
 Xaa Gln Asn Trp Ser Leu Pro Pro Ile Ser Lys Asp Arg Thr Ala Gly  
                     130                    135                    140  
 Xaa Xaa Asp Thr Asn Arg Thr Arg Arg Ser Gly Leu Xaa Leu Arg Leu  
                     145                    150                    155                    160  
 Gly

<210> 742  
 <211> 325  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 742  
 Val Pro Pro Ala Val Cys Pro Ala Gly Xaa Phe Cys Gln Asn Gln Cys  
   1                    5                    10                    15  
 Phe Thr Lys Arg Gln Tyr Pro Glu Thr Lys Ile Ile Lys Thr Asp Gly  
                     20                    25                    30  
 Lys Gly Trp Gly Leu Val Ala Lys Arg Asp Ile Arg Lys Gly Glu Phe  
                     35                    40                    45  
 Val Asn Glu Tyr Val Gly Glu Leu Ile Asp Glu Glu Glu Cys Met Ala

50	55	60
Arg Ile Lys His Ala His Glu Asn Asp Ile Thr His Phe Tyr Met Leu		
65	70	75 80
Thr Ile Asp Lys Asp Arg Ile Ile Asp Ala Gly Pro Lys Gly Asn Tyr		
	85	90 95
Ser Arg Phe Met Asn His Ser Cys Gln Pro Asn Cys Glu Thr Leu Lys		
	100	105 110
Trp Thr Val Asn Gly Asp Thr Arg Val Gly Leu Phe Ala Val Cys Asp		
	115	120 125
Ile Pro Ala Gly Thr Glu Leu Xaa Phe Asn Tyr Asn Leu Asp Cys Leu		
	130	135 140
Gly Asn Glu Lys Thr Val Cys Arg Cys Gly Ala Ser Asn Cys Ser Gly		
145	150	155 160
Phe Leu Gly Asp Arg Pro Lys Thr Ser Thr Thr Leu Ser Ser Glu Glu		
	165	170 175
Lys Gly Lys Lys Thr Lys Lys Lys Thr Xaa Arg Arg Arg Ala Lys Gly		
	180	185 190
Glu Gly Lys Arg Gln Ser Glu Asp Glu Cys Phe Arg Cys Gly Asp Gly		
	195	200 205
Gly Gln Leu Val Leu Cys Asp Arg Lys Phe Cys Thr Lys Ala Tyr His		
	210	215 220
Leu Ser Cys Leu Gly Leu Gly Lys Arg XaaPhe Gly Lys Trp Glu Cys		
225	230	235 240
Pro Trp His His Cys Asp Val Cys Gly Lys Pro Ser Thr Ser Phe Cys		
	245	250 255
His Leu Cys Pro Asn Ser Phe Cys LysGlu His Gln Asp Gly Thr Ala		
	260	265 270
Phe Ser Cys Thr Pro Asp Gly Arg Ser Tyr Cys Cys Glu His Asp Leu		
	275	280 285
Gly Ala Ala Ser Val Arg Ser Thr Lys Thr Glu LysPro Pro Pro Glu		
	290	295 300
Pro Gly Lys Pro Lys Gly Lys Arg Arg Arg Arg Arg Gly Trp Arg Arg		
305	310	315 320
Val Thr Glu Gly Lys		
	325	

<210> 743

<211> 40

<212> PRT  
<213> Homo sapiens

<400> 743  
Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
1 5 10 15  
Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
20 25 30  
Val Ser Gln Lys Arg Gly His Ile  
35 40

<210> 744  
<211> 173  
<212> PRT  
<213> Homo sapiens

<400> 744  
Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys  
1 5 10 15  
Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr  
20 25 30  
Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp  
35 40 45  
Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys  
50 55 60  
Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu  
65 70 75 80  
Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Gly Cys Trp Ala  
85 90 95  
Arg Ala Gly Gly His Gln Gln Lys His Leu Leu Arg Pro Arg Arg Gly  
100 105 110  
Arg Glu Leu Trp Gln Val Pro Ala Ala Gly Val Pro Pro Asp Arg Gly  
115 120 125  
Met Pro Thr Pro Thr Arg Thr Asn Pro Ser Leu Ser Trp Arg Ala Ser  
130 135 140  
Ser Ser Arg Ala Arg Asn Arg Thr Ala Gly Arg Arg Ala Gly Ser Thr  
145 150 155 160  
Arg Thr Phe Trp Glu Cys Trp Ser Thr Pro Gly Pro Cys  
165 170

<210> 745

<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 745  
Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
1 5 10 15  
Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
20 25 30  
Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
35 40 45

<210> 746  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 746  
Ile Tyr Gln His Phe Ser Leu Trp Leu Gly  
1 5 10

<210> 747  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 747  
Met Phe Lys Met  
1

<210> 748  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 748  
Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala  
1 5 10 15  
Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile  
20 25 30  
His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu  
35 40 45  
Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile

50                                      55                                      60  
 Ser Glu Leu Pro Gln Gln Val Gly GluVal Gly Thr Pro Ser Cys Asn  
 65                                      70                                      75                                      80

<210> 749  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<400> 749  
 Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu  
 1                                      5                                      10                                      15  
 Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr  
 20                                      25                                      30  
 Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro  
 35                                      40                                      45  
 Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe  
 50                                      55                                      60  
 Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala  
 65                                      70                                      75                                      80  
 Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu  
 85                                      90                                      95  
 Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys  
 100                                      105                                      110  
 Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro Ala Thr  
 115                                      120                                      125  
 Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu  
 130                                      135                                      140  
 Gln  
 145

<210> 750  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 750  
 Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe  
 1                                      5                                      10                                      15

Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Ser  
                   20                  25                  30  
 Phe Ser Lys Arg Gly Phe Ser Val Arg Ser Phe Gly Thr Gly Thr His  
                   35                  40                  45  
 Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe  
                   50                  55                  60  
 Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys  
                   65                  70                  75                  80  
 Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys  
                   85                  90                  95  
 Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe  
                   100                  105                  110  
 Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu  
                   115                  120                  125  
 Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val  
                   130                  135                  140  
 Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe  
                   145                  150                  155                  160  
 Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu  
                   165                  170                  175  
 Asn Glu Ile Asp Glu Leu Leu Gln Glu Phe Glu Glu Lys Ser Gly Arg  
                   180                  185                  190  
 Thr Phe Leu His Thr Val Cys Phe Tyr  
                   195                  200

<210> 751

<211> 392

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring amino acids

<400> 751

Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly  
                   1                  5                  10                  15  
 Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser  
                   20                  25                  30  
 Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr  
                   35                  40                  45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile  
50 55 60  
Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu  
65 70 75 80  
Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly  
85 90 95  
Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser  
100 105 110  
Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro  
115 120 125  
Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro  
130 135 140  
Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu  
145 150 155 160  
Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly  
165 170 175  
Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys  
180 185 190  
Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His  
195 200 205  
Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro  
210 215 220  
Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His  
225 230 235 240  
Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala  
245 250 255  
Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly  
260 265 270  
Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly  
275 280 285  
Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys  
290 295 300  
Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile  
305 310 315 320  
Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val  
325 330 335  
Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr  
340 345 350

Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile GlyAla  
 355 360 365  
 Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val  
 370 375 380  
 Leu Glu Gly Phe Ile Lys Gly Arg  
 385 390

<210> 752  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 752  
 Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln Met Phe Phe Gly Ile  
 1 5 10 15  
 Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys Gly Asp Leu Val Phe  
 20 25 30  
 Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met Thr Gly Tyr Trp Leu  
 35 40 45  
 Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe Ile Lys Gly Arg  
 50 55 60

<210> 753  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 753  
 Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu  
 1 5 10 15  
 Trp Leu Leu Leu Lys Ala Gly Ala ValArg Gly Ala Arg Ala Gly Pro  
 20 25 30  
 Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg  
 35 40 45  
 Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln LysLeu Leu Gly Gln  
 50 55 60  
 Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro  
 65 70 75 80  
 Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val CysThr Gly  
 85 90 95  
 Leu Ala Arg Trp Met Val

100

<210> 754  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 754  
Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser  
1 5 10 15  
Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu  
20 25 30  
Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln  
35 40 45  
Arg Arg Ser His Cys  
50

<210> 755  
<211> 472  
<212> PRT  
<213> Homo sapiens

<400> 755  
Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser  
1 5 10 15  
Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr  
20 25 30  
Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys  
35 40 45  
Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr  
50 55 60  
Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly  
65 70 75 80  
Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Gln  
85 90 95  
Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His  
100 105 110  
Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His

115					120					125					
Lys	Ile	Ala	Ile	Leu	Gly	Leu	Gly	Ser	Ser	Ile	Gly	Thr	Pro	Pro	Glu
130						135					140				
Gly	Ile	Thr	Ala	Glu	Val	Leu	Val	Val	Thr	Ser	Phe	Asp	Glu	Leu	Gln
145					150					155					160
Arg	Arg	Ala	Ser	Glu	Ala	Arg	Gly	Lys	Ile	Val	Val	Ty	Asn	Gln	Pro
				165					170					175	
Tyr	Ile	Asn	Tyr	Ser	Arg	Thr	Val	Gln	Tyr	Arg	Thr	Gln	Gly	Ala	Val
		180						185					190		
Glu	Ala	Ala	Lys	Val	Gly	Ala	Leu	Ala	Ser	Leu	Ile	Arg	Se	Val	Ala
		195					200					205			
Ser	Phe	Ser	Ile	Tyr	Ser	Pro	His	Thr	Gly	Ile	Gln	Glu	Tyr	Gln	Asp
	210					215					220				
Gly	Val	Pro	Lys	Ile	Pro	Thr	Ala	Cys	Ile	Thr	Val	Glu	Asp	Ala	Glu
225					230					235					240
Met	Met	Ser	Arg	Met	Ala	Ser	His	Gly	Ile	Lys	Ile	Val	Ile	Gln	Leu
				245					250					255	
Lys	Met	Gly	Ala	Lys	Thr	Tyr	Pro	Asp	Thr	Asp	Ser	Phe	Asn	Thr	Val
			260					265					270		
Ala	Glu	Ile	Thr	Gly	Ser	Lys	Tyr	Pro	Glu	Gln	Val	Val	Leu	Val	Ser
		275					280					285			
Gly	His	Leu	Asp	Ser	Trp	Asp	Val	Gly	Gln	Gly	Ala	Met	Asp	Asp	Gly
	290					295					300				
Gly	Gly	Ala	Phe	Ile	Ser	Trp	Glu	Ala	Leu	Ser	Leu	Ile	Lys	Asp	Leu
305					310					315					320
Gly	Leu	Arg	Pro	Lys	Arg	Thr	Leu	Arg	Leu	Val	Leu	Trp	Thr	Ala	Glu
				325					330					335	
Glu	Gln	Gly	Gly	Val	Gly	Ala	Phe	Gln	Tyr	Tyr	Gln	Leu	His	Lys	Val
			340					345					350		
Asn	Ile	Ser	Asn	Tyr	Ser	Leu	Val	Met	Glu	Ser	Asp	Ala	Gly	Thr	Phe
		355					360					365			
Leu	Pro	Thr	Gly	Leu	Gln	Phe	Thr	Gly	Ser	Glu	Lys	Ala	Arg	Ala	Ile
	370					375					380				
Met	Glu	Glu	Val	Met	Ser	Leu	Leu	Gln	Pro	Leu	Asn	Ile	Thr	Gln	Val
385					390					395				400	
Leu	Ser	His	Gly	Glu	Gly	Thr	Asp	Ile	Asn	Phe	Trp	Ile	Gln	Ala	Gly
			405					410						415	
Val	Pro	Gly	Ala	Ser	Leu	Leu	Asp	Asp	Leu	Tyr	Lys	Tyr	Phe	Phe	Phe

	420		425		430
His His Ser His Gly Asp Thr Met Thr Val Met Asp Pro Lys Gln Met	435		440		445
Asn Val Ala Ala Ala Val Trp Ala Val Val Ser Tyr Val Val Ala Asp	450		455		460
Met Glu Glu Met Leu Pro Arg Ser	465		470		

<210> 756  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

Ser Ile Tyr Ser Pro His Thr Gly Ile Gln Glu Tyr Gln Asp Gly Val	1	5	10	15
Pro Lys Ile Pro Thr Ala Cys Ile Thr Val Glu Asp Ala Glu Met Met	20	25	30	
Ser Arg Met Ala Ser His Gly Ile Lys Ile Val Ile Gln Leu Lys Met	35	40	45	
Gly Ala Lys Thr Tyr Pro Asp Thr Asp Ser Phe Asn Thr Val Ala Glu	50	55	60	
Ile Thr Gly Ser Lys Tyr Pro Glu Gln Val Val Leu Val Ser Gly His	65	70	75	80
Leu Asp Ser Trp Asp Val Gly Gln Gly Ala Met Asp Asp Gly Gly Gly	85	90	95	
Ala Phe Ile Ser Trp Glu Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu	100	105	110	
Arg Pro Lys Arg Thr Leu Arg Leu Val Leu Trp Thr Ala Glu Glu Gln	115	120	125	
Gly Gly Val Gly Ala Phe Gln Tyr Tyr Gln Leu His Lys Val Asn Ile	130	135	140	
Ser Asn Tyr Ser Leu Val Met Glu Ser Asp Ala GlyThr Phe Leu Pro	145	150	155	160
Thr Gly Leu Gln Phe Thr Gly Ser Glu Lys Ala Arg Ala Ser Trp Arg	165	170	175	
Arg Leu				

<210> 757  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (142)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 757  
 Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
   1                  5                  10                  15  
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
           20                  25                  30  
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr  
           35                  40                  45  
 Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala  
       50                  55                  60  
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu  
       65                  70                  75                  80  
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val  
           85                  90                  95  
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe  
          100                 105                 110  
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe  
       115                 120                 125  
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr Xaa Cys Ser  
       130                 135                 140  
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val  
      145                 150                 155                 160  
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Leu Leu  
          165                 170                 175  
 Gln Gly Trp Lys Asp Ser Ala Lys Gln Gly Gly Ser Pro Gln Asn Ser  
      180                 185                 190  
 Arg Ser Pro Gln Leu Gln Lys  
      195

<210> 758  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 758  
 Ser Trp  
 1

<210> 759  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 759  
 Cys Leu Glu Thr Phe Trp Ser Leu Tyr Leu Gly Gly Trp Gly Met Val  
 1 5 10 15  
 Gly Cys Val Cys Tyr Trp His Pro Val Asn Arg Ser Gln Gly Cys Arg  
 20 25 30

<210> 760  
 <211> 283  
 <212> PRT  
 <213> Homo sapiens

<400> 760  
 Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu  
 1 5 10 15  
 Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu  
 20 25 30  
 Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu  
 35 40 45  
 Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu  
 50 55 60  
 Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Gly Thr Thr Gly Trp  
 65 70 75 80  
 Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu  
 85 90 95  
 Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe  
 100 105 110  
 Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr  
 115 120 125  
 Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu  
 130 135 140  
 Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr

145		150		155		160									
Val	Pro	Ile	Tyr	Ala	Thr	Gly	Val	Leu	Thr	Cys	Tyr	Ile	Gln	Glu	Glu
				165					170					175	
Asp	Arg	Lys	Leu	Leu	Val	Gly	Phe	Leu	Glu	Asp	Val	Met	Thr	Leu	Leu
			180					185					190		
Ser	Leu	Ser	His	Ala	Pro	Leu	Asp	Ser	Leu	Lys	Ala	Ser	Phe	Val	Glu
			195				200					205			
Leu	Gly	Ala	Asn	Pro	Ala	Tyr	His	Glu	Leu	Leu	Leu	Thr	Val	Leu	Trp
	210					215					220				
Tyr	Gly	Val	Val	His	Thr	Ser	Ala	Leu	Val	Arg	Cys	Thr	Ala	Ala	Arg
225					230					235					240
Met	Phe	Glu	Val	Cys	Gln	His	Met	Pro	Leu	Leu	Val	Ser	Ile	Ile	Met
				245					250					255	
Ile	Phe	Phe	Phe	Leu	Arg	Arg	Arg	Arg	Glu	Phe	Phe	Leu	Ile	Lys	Arg
			260					265					270		
Leu	Cys	Ile	Ser	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		275						280							

<210> 761

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 761

Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu  
1 5 10 15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu  
20 25 30

Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu  
35 40 45

Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu  
50 55 60

Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp  
65 70 75 80

Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu  
85 90 95

Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe  
100 105 110

Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr  
115 120 125

Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu  
130 135 140

Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr  
145 150 155 160

Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu  
165 170 175

Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu  
180 185 190

Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu  
195 200 205

Leu Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa  
210 215 220

Tyr Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg  
225 230 235 240

Met Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln  
245 250 255

Arg Val Val Pro Ala Leu His Xaa Leu Ser Pro Val Asp Pro Xaa Asn  
260 265 270

Leu Cys Gln Asp Cys His Asn Phe Gln Pro Leu Gly Leu Phe  
275 280 285

<210> 762  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 762  
 Met Gln Ala Pro Leu Gln Asp Cys Gly Arg Ser Val Ser Leu Arg Leu  
   1                  5                  10                  15  
  
 Ala Cys Val Leu Ala Pro Leu Thr Thr Ser Ser Arg Gly Cys His Leu  
           20                  25                  30  
  
 Gln Leu Pro Gln Asp Lys Gly Lys Ala Arg Xaa Asp Ser  
       35                  40                  45

<210> 763  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 763  
 Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp  
   1                  5                  10                  15  
  
 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  
           20                  25                  30  
  
 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly  
       35                  40                  45  
  
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
       50                  55                  60  
  
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
       65                  70                  75                  80  
  
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
           85                  90                  95  
  
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
      100                 105                 110  
  
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
      115                 120                 125  
  
 Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys  
      130                 135                 140  
  
 Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr

145                      150                      155                      160  
 Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr  
                                  165                                   170                                   175  
 Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala  
                                  180                                   185                                   190  
 Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala  
                                  195                                   200                                   205  
 Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu  
                                  210                                   215                                   220  
 Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met  
 225                                   230                                   235                                   240  
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser  
                                  245                                   250                                   255  
 Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu  
                                  260                                   265                                   270  
 Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp  
                                  275                                   280                                   285  
 Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val  
                                  290                                   295                                   300  
 Cys  
 305

<210> 764  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 764  
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly  
   1                                  5                                  10                                  15  
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu  
                                   20                                  25                                  30  
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser  
                                   35                                  40                                  45  
 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Arg Leu Pro  
                                   50                                  55                                  60  
 Gln His Arg Pro Asp Leu Leu Val  
   65                                  70

<210> 765  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 765  
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala  
   1                  5                  10                  15  
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu  
                   20                  25                  30  
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser  
           35                  40                  45  
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala  
       50                  55                  60  
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu  
   65                  70                  75                  80  
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser  
                   85                  90                  95  
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly  
           100                  105                  110  
 Ala Ala Leu Gly Ala Ala Ser Ala His  
       115                  120

<210> 766  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (300)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 766  
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly  
   1                  5                  10                  15  
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg  
           20                  25                  30  
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His  
       35                  40                  45  
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala  
   50                  55                  60  
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly  
   65                  70                  75                  80

Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val  
                             85                            90                            95  
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His  
                             100                            105                            110  
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg  
                             115                            120                            125  
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His  
                             130                            135                            140  
 Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Trp  
                             145                            150                            155                            160  
 Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln  
                             165                            170                            175  
 Asp Gly Asp Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His  
                             180                            185                            190  
 Pro Glu Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu  
                             195                            200                            205  
 Glu Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr  
                             210                            215                            220  
 Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala Trp  
                             225                            230                            235                            240  
 Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu Asn Lys  
                             245                            250                            255  
 Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val Leu Pro Pro  
                             260                            265                            270  
 Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu Leu His Glu Ser  
                             275                            280                            285  
 Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala Xaa Ile Leu Gly Asn  
                             290                            295                            300  
 Trp Asn Met Phe Val Gly Ser Gln Ala Thr Asn Tyr Gly Glu Asp Leu  
                             305                            310                            315                            320  
 Thr Arg His His Asp Glu Leu  
                             325

<210> 767  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (148)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (165)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 767  
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly  
   1                  5                  10                  15  
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg  
                   20                  25                  30  
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His  
           35                  40                  45  
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala  
   50                  55                  60  
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly  
   65                  70                  75                  80  
 Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val  
                   85                  90                  95  
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His  
           100                  105                  110  
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg  
   115                  120                  125  
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Xaa Thr Tyr Gly His  
   130                  135                  140  
 Xaa Xaa Pro Xaa Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr  
 145                  150                  155                  160  
 Lys Lys Met Leu Xaa Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln  
                   165                  170                  175

Asp Gly Asp Ser Met Ala Thr Arg  
180

<210> 768  
<211> 509  
<212> PRT  
<213> Homo sapiens

<400> 768  
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp  
1 5 10 15  
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser  
20 25 30  
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro  
35 40 45  
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
50 55 60  
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val  
65 70 75 80  
Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
85 90 95  
Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
100 105 110  
Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
115 120 125  
Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
130 135 140  
Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
145 150 155 160  
Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
165 170 175  
Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
180 185 190  
Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
195 200 205  
Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser  
210 215 220  
Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys  
225 230 235 240

Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala  
 245 250 255  
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile  
 260 265 270  
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly  
 275 280 285  
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro  
 290 295 300  
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val  
 305 310 315 320  
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala  
 325 330 335  
 Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr  
 340 345 350  
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala  
 355 360 365  
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr  
 370 375 380  
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr  
 385 390 395 400  
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro  
 405 410 415  
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg  
 420 425 430  
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr  
 435 440 445  
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg  
 450 455 460  
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val  
 465 470 475 480  
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys  
 485 490 495  
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val  
 500 505

<210> 769  
 <211> 554  
 <212> PRT  
 <213> Homo sapiens

<400> 769

Met	Gly	Pro	Arg	Phe	Thr	Met	Leu	Leu	Ala	Met	Trp	Leu	Val	Cys	Gly	1	5	10	15
Ser	Glu	Pro	His	Pro	His	Ala	Thr	Ile	Arg	Gly	Ser	His	Gly	Gly	Arg	20	25	30	
Lys	Val	Pro	Leu	Val	Ser	Pro	Asp	Ser	Ser	Arg	Pro	Ala	Arg	Phe	Leu	35	40	45	
Arg	His	Thr	Gly	Arg	Ser	Arg	Gly	Ile	Glu	Arg	Ser	Thr	Leu	Glu	Glu	50	55	60	
Pro	Asn	Leu	Gln	Pro	Leu	Gln	Arg	Arg	Arg	Ser	Val	Pro	Val	Leu	Arg	65	70	75	80
Leu	Ala	Arg	Pro	Thr	Glu	Pro	Pro	Ala	Arg	Ser	Asp	Ile	Asn	Gly	Ala	85	90	95	
Ala	Val	Arg	Pro	Glu	Gln	Arg	Pro	Ala	Ala	Arg	Gly	Ser	Pro	Arg	Glu	100	105	110	
Met	Ile	Arg	Asp	Glu	Gly	Ser	Ser	Ala	Arg	Ser	Arg	Met	Leu	Arg	Phe	115	120	125	
Pro	Ser	Gly	Ser	Ser	Ser	Pro	Asn	Ile	Leu	Ala	Ser	Phe	Ala	Gly	Lys	130	135	140	
Asn	Arg	Val	Trp	Val	Ile	Ser	Ala	Pro	His	Ala	Ser	Glu	Gly	Tyr	Tyr	145	150	155	160
Arg	Leu	Met	Met	Ser	Leu	Leu	Lys	Asp	Asp	Val	Tyr	Cys	Glu	Leu	Ala	165	170	175	
Glu	Arg	His	Ile	Gln	Gln	Ile	Val	Leu	Phe	His	Gln	Ala	Gly	Glu	Glu	180	185	190	
Gly	Gly	Lys	Val	Arg	Arg	Ile	Thr	Ser	Glu	Gly	Gln	Ile	Leu	Glu	Gln	195	200	205	
Pro	Leu	Asp	Pro	Ser	Leu	Ile	Pro	Lys	Leu	Met	Ser	Phe	Leu	Lys	Leu	210	215	220	
Glu	Lys	Gly	Lys	Phe	Gly	Met	Val	Leu	Leu	Lys	Lys	Thr	Leu	Gln	Val	225	230	235	240
Glu	Glu	Arg	Tyr	Pro	Tyr	Pro	Val	Arg	Leu	Glu	Ala	Met	Tyr	Glu	Val	245	250	255	
Ile	Asp	Gln	Gly	Pro	Ile	Arg	Arg	Ile	Glu	Lys	Ile	Arg	Gln	Lys	Gly	260	265	270	
Phe	Val	Gln	Lys	Cys	Lys	Ala	Ser	Gly	Val	Glu	Gly	Gln	Val	Val	Ala	275	280	285	
Glu	Gly	Asn	Asp	Gly	Gly	Gly	Gly	Ala	Gly	Arg	Pro	Ser	Gln	Gly	Ser				

290	295	300
Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg 305 310 315 320		
Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala 325 330 335		
Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala 340 345 350		
Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys 355 360 365		
Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu 370 375 380		
Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile 385 390 395 400		
Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro 405 410 415		
Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala 420 425 430		
Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile 435 440 445		
Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn 450 455 460		
Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro 465 470 475 480		
Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln 485 490 495		
Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg 500 505 510		
Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro 515 520 525		
Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro 530 535 540		
Glu Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys 545 550		

<210> 770  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 770

Met Leu Ala Leu Leu Gly Leu Leu Ala Gly Thr Glu His Pro Pro Gly  
1 5 10 15

Pro Gln Gly Pro Gly Pro Ser  
20

<210> 771

<211> 25

<212> PRT

<213> Homo sapiens

<400> 771

Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Val Val Ala  
1 5 10 15

Val Gln Leu Cys Tyr Met Lys Gln Pro  
20 25

<210> 772

<211> 40

<212> PRT

<213> Homo sapiens

<400> 772

Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val  
1 5 10 15

Cys Leu Thr Ala Thr Ser Pro Ser Lys Pro Ser Ala Pro His Ser His  
20 25 30

Gln Met Asp Leu Cys Leu Leu His  
35 40

<210> 773

<211> 305

<212> PRT

<213> Homo sapiens

<400> 773

Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu Ser Ala  
1 5 10 15

Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu  
20 25 30

Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg  
35 40 45

Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu  
50 55 60

Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys  
65 70 75 80  
Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe  
85 90 95  
Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu  
100 105 110  
Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala  
115 120 125  
Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys  
130 135 140  
Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala  
145 150 155 160  
Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val  
165 170 175  
Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu  
180 185 190  
Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu  
195 200 205  
Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu  
210 215 220  
Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu  
225 230 235 240  
Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile  
245 250 255  
Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg  
260 265 270  
Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg  
275 280 285  
Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser  
290 295 300  
Leu  
305

<210> 774  
<211> 122  
<212> PRT  
<213> Homo sapiens  
<220>

<221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 774  
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
   1                  5                 10                 15  
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
           20                 25                 30  
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
           35                 40                 45  
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
   50                 55                 60  
 Thr Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
   65                 70                 75                 80  
 Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr  
           85                 90                 95  
 Lys Asp Thr Xaa Leu Thr Ser Leu Arg Met Ser Lys Xaa Gly Pro Gly  
           100                 105                 110  
 His Trp Ala Xaa Lys Thr Ser Trp Cys Lys  
   115                 120

<210> 775  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring amino acids

<400> 775

Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala  
1 5 10 15

Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys  
20 25 30

Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val  
35 40 45

Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln  
50 55 60

Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg  
65 70 75 80

Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe  
85 90 95

Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro  
100 105 110

Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser  
115 120 125

Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu  
130 135 140

Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly  
145 150 155 160

Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met  
165 170 175

Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser  
180 185 190

Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala  
195 200 205

Val Ser Leu Ser His Ile Arg Asn  
210 215

<210> 776

<211> 127

<212> PRT

<213> Homo sapiens

<400> 776

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys  
1 5 10 15

Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp  
                   20                                  25                                  30  
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln  
                   35                                  40                                  45  
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp  
                   50                                  55                                  60  
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr  
                   65                                  70                                  75                                  80  
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu  
                                   85                                  90                                  95  
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn  
                                   100                                  105                                  110  
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Glu Pro His Pro Ser Pro  
                   115                                  120                                  125

<210> 777

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring amino acids

<400> 777

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys  
                   1                                  5                                  10                                  15  
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp  
                   20                                  25                                  30  
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln  
                   35                                  40                                  45  
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp  
                   50                                  55                                  60  
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr  
                   65                                  70                                  75                                  80  
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu  
                                   85                                  90                                  95  
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn  
                   100                                  105                                  110  
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Xaa Ser Met

115                      120                      125  
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly  
 130                      135                      140  
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Leu Pro  
 145                      150                      155                      160  
 Gly Ser Leu Gln

<210> 778  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 778  
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile SerAsp Ala Met  
 1                      5                      10                      15  
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser  
 20                      25                      30  
 Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro LysTyr Trp  
 35                      40                      45  
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro  
 50                      55                      60  
 Asn Ser Thr Asn His Val Ala Leu Lys Asp Thr Gly Asn Gln Leu Ile  
 65                      70                      75                      80  
 Val Thr Met Ser Cys Leu Asn Lys Glu Asp Thr Gly Trp Tyr Trp Cys  
 85                      90                      95  
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu  
 100                      105                      110  
 Ile Val Thr Asp Asp Lys Gly Thr Trp Pro Met Thr Leu Val Trp Glu  
 115                      120                      125  
 Arg Leu Ser Gly Thr Lys Pro Glu Ala Ala Arg Leu Pro Lys Leu Ser  
 130                      135                      140  
 Ala Arg Leu Thr Ala Pro Gly Arg Pro Phe Ser Ser Phe Ala Tyr  
 145                      150                      155

<210> 779  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 779  
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met  
   1                  5                  10                  15  
 Val Met Asp Glu Lys Val Lys Arg Ser Leu Cys Trp Thr Arg Leu Leu  
                   20                  25                  30  
 Pro Ser Ala Thr Thr Met Pro Xaa Thr Arg Ile Thr Pro Asn Thr Gly  
                   35                  40                  45  
 Ala Glu Xaa Ile Ser Val Xaa Thr Ala Thr Ser Ser Pro Ser Pro Leu  
           50                  55                  60  
 Thr Ala Pro Ile Met Trp Pro  
   65                  70

<210> 780  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 780  
 Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser  
   1                  5                  10                  15  
 Leu Ile Phe Leu Ser Arg Gly Ser Gly ArgAla Trp Ala Phe Ser His  
                   20                  25                  30  
 Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu  
           35                  40                  45  
 Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser HisIle Ser Leu  
           50                  55                  60  
 Ser Val Thr Lys Thr Phe Leu  
   65                  70

<210> 781  
 <211> 140

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 781  
Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu  
1 5 10 15  
Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr  
20 25 30  
Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys  
35 40 45  
Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys  
50 55 60  
Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala  
65 70 75 80  
Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile  
85 90 95  
Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg  
100 105 110  
Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly  
115 120 125  
Ser Leu Leu Gly Phe Ile Pro Xaa Ala Trp Asn Leu  
130 135 140

<210> 782  
<211> 86  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 782  
Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile  
1 5 10 15

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile  
                   20                  25                  30  
 Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser  
                   35                  40                  45  
 Asn Tyr Tyr Asp Ala Tyr Gln Ala Gn Pro Leu Ala Thr Arg Ser Ser  
                   50                  55                  60  
 Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr  
                   65                  70                  75                  80  
 Ser Leu Thr Gly Tyr Val  
                                   85

<210> 783  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 783  
 Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu  
           1                  5                  10                  15  
 Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys PheGln Thr Ser  
                   20                  25                  30  
 Trp Pro Lys Thr Leu Val Glu Glu Gln Asn  
                   35                  40

<210> 784  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 784  
 Ile Asn Phe Thr Tyr Lys Arg Leu Ser Leu Asp Phe Ile Tyr Ile Tyr  
           1                  5                  10                  15  
 Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Tyr  
                   20                  25                  30  
 Leu Lys Arg Thr Cys Ala Ser Ile Lys Gly Asn Lys Met Arg Glu Tyr  
                   35                  40                  45  
 Ile Ile Asp Phe Val Lys Ser Lys Tyr Leu Asn Tyr Gly Phe Ser Ile  
           50                  55                  60  
 Phe Lys Asn Ser Cys Ser Phe Cys Thr Tyr Phe Phe  
           65                  70                  75

<210> 785  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 785  
 Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala  
   1                  5                  10                  15  
 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val  
           20                  25                  30  
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp  
           35                  40                  45  
 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln  
   50                  55                  60  
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala  
   65                  70                  75                  80  
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala  
                   85                  90                  95  
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu  
           100                  105                  110

<210> 786  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 786  
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu  
   1                  5                  10                  15  
 Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile  
           20                  25                  30  
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro  
           35                  40                  45  
 Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu  
   50                  55                  60  
 Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr  
   65                  70                  75

<210> 787  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 787

```
Met Val Thr Phe Ile Asn Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1           5           10           15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
          20           25           30

Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Phe Gln
          35           40           45

Thr Ala Trp Pro Ala
      50
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<210> 788

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring amino acids

<400> 788

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Met Val Thr Phe Ile Xaa Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1           5           10           15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
          20           25           30

Asp Val Ile Met Gly Ile Xaa Phe Leu Ala Ala Xaa Thr Ser Val Pro
          35           40           45

Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Gly Leu Gly Asp Met
          50           55           60

Ala Val Ser Asn Thr Ile Xaa Ser Asn Val Phe Asp Ile Leu Val Gly
          65           70           75           80

Leu Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser
```

	85		90		95
Thr Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu					
	100		105		110
Leu Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp					
	115		120		125
Arg Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile					
	130		135		140
Phe Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val					
	145		150		155
					160
Asn Leu Pro Met Cys Arg Glu Asp Asp					
	165				

<210> 789  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 789
Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe
1 5 10 15
Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser
20 25 30
Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys
35 40 45
Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
50 55 60
Phe Pro Ile Ser Xaa Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser
65 70 75 80
Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
85 90 95
Ser Phe Ser Val Pro Cys Arg Val Lys
100 105

<210> 790  
 <211> 886  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (216)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (275)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (871)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 790  
 Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu  
   1                  5                  10                  15  
 Leu Ala Ala Gly Pro Ser Ala Ala Ala Xaa Lys Leu Asn Ile Pro Lys  
                   20                  25                  30  
 Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu  
           35                  40                  45  
 Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala  
   50                  55                  60  
 Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala  
   65                  70                  75                  80  
 Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile  
           85                  90                  95  
 Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile  
           100                  105                  110  
 Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu  
   115                  120                  125  
 Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser  
   130                  135                  140  
 Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr  
   145                  150                  155                  160

Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala  
 165 170 175  
 Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr  
 180 185 190  
 Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val  
 195 200 205  
 Ser Gly Met Lys Thr Gly Ser Xaa Lys Leu Lys Ala Arg Ile Gln Glu  
 210 215 220  
 Ala Val Tyr Lys Asn Val Arg Pro Ala Xaa Val Arg Leu Leu Ile Leu  
 225 230 235 240  
 Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly  
 245 250 255  
 Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr  
 260 265 270  
 Glu Leu Xaa Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser  
 275 280 285  
 Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala  
 290 295 300  
 Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu  
 305 310 315 320  
 Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro  
 325 330 335  
 Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val  
 340 345 350  
 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile  
 355 360 365  
 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp  
 370 375 380  
 Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu  
 385 390 395 400  
 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg  
 405 410 415  
 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp  
 420 425 430  
 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val  
 435 440 445  
 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro  
 450 455 460

Trp	Gln	Pro	Lys	Thr	Gly	Ala	Tyr	Gln	Tyr	Thr	Ile	Arg	Ala	His	Gly	465	470	475	480
Gly	Ser	Gly	Asn	Phe	Ser	Trp	Ser	Ser	Ser	Ser	His	Leu	Val	Ala	Thr	485	490	495	
Val	Thr	Val	Lys	Gly	Val	Met	Thr	Thr	Gly	Ser	Asp	Ile	Gly	Phe	Ser	500	505	510	
Val	Ile	Gln	Ala	His	Asp	Val	Gln	Asn	Pro	Leu	His	Phe	Gly	Glu	Met	515	520	525	
Lys	Val	Tyr	Val	Ile	Glu	Pro	His	Ser	Met	Glu	Phe	Ala	Pro	Cys	Gln	530	535	540	
Val	Glu	Ala	Arg	Val	Gly	Gln	Ala	Leu	Glu	Leu	Pro	Leu	Arg	Ile	Ser	545	550	555	560
Gly	Leu	Met	Pro	Gly	Gly	Ala	Ser	Glu	Val	Val	Thr	Leu	Ser	Asp	Cys	565	570	575	
Ser	His	Phe	Asp	Leu	Ala	Val	Glu	Val	Glu	Asn	Gln	Gly	Val	Phe	Gln	580	585	590	
Pro	Leu	Pro	Gly	Arg	Leu	Pro	Pro	Gly	Ser	Glu	His	Cys	Ser	Gly	Val	595	600	605	
Arg	Val	Lys	Ala	Glu	Ala	Gln	Gly	Ser	Thr	Thr	Leu	Leu	Val	Ser	Tyr	610	615	620	
Arg	His	Gly	His	Val	His	Leu	Ser	Ala	Lys	Ile	Thr	Ile	Ala	Ala	Tyr	625	630	635	640
Leu	Pro	Leu	Lys	Ala	Val	Asp	Pro	Ser	Ser	Val	Ala	Leu	Val	Thr	Leu	645	650	655	
Gly	Ser	Ser	Lys	Glu	Met	Leu	Phe	Glu	Gly	Gly	Pro	Arg	Pro	Trp	Ile	660	665	670	
Leu	Glu	Pro	Ser	Lys	Phe	Phe	Gln	Asn	Val	Thr	Ala	Glu	Asp	Thr	Asp	675	680	685	
Ser	Ile	Gly	Leu	Ala	Leu	Phe	Ala	Pro	His	Ser	Ser	Arg	Asn	Tyr	Gln	690	695	700	
Gln	His	Trp	Ile	Leu	Val	Thr	Cys	Gln	Ala	Leu	Gly	Glu	Gln	Val	Ile	705	710	715	720
Ala	Leu	Ser	Val	Gly	Asn	Lys	Pro	Ser	Leu	Thr	Asn	Pro	Phe	Pro	Ala	725	730	735	
Val	Glu	Pro	Ala	Val	Val	Lys	Phe	Val	Cys	Ala	Pro	Pro	Ser	Arg	Leu	740	745	750	
Thr	Leu	Val	Pro	Val	Tyr	Thr	Ser	Pro	Gln	Leu	Asp	Met	Ser	Cys	Pro	755	760	765	

Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn  
 770 775 780  
 Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Gh Gly Arg Arg Phe Asp  
 785 790 795 800  
 Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu  
 805 810 815  
 Ala Ser Ile Glu Pro Glu Leu Pro Met Gh Leu Val Ser Gln Asp Asp  
 820 825 830  
 Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His  
 835 840 845  
 Glu Ala Ser Gly Thr Thr Ala Ser Leu Pro Leu Pro La Ala Thr Arg  
 850 855 860  
 Ser Pro Thr Ser Ala Leu Xaa Glu Gln Ser Ser Arg Met Thr Leu Trp  
 865 870 875 880  
 Cys Leu Cys Arg Pro Pro  
 885

<210> 791  
 <211> 498  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (398)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 791  
 Glu Ala Leu Gly Gly Arg Cys Leu Trp Glu Xaa Pro Val Thr Phe Thr  
 1 5 10 15  
 Val His Phe Xaa Asp Asn Ser Gly Asp Val Phe His Ala His Ser Ser  
 20 25 30  
 Val Leu Asn Phe Ala Thr Asn Arg Asp Asp Phe Val Gln Ile Gly Lys  
 35 40 45  
 Gly Pro Thr Asn Asn Thr Cys Val Val Arg Thr Va Ser Val Gly Leu



355                      360                      365  
 Ser Gln Gly Pro Leu Ser Thr Thr Leu Thr Phe Ser Ser Pro Val Thr  
 370                      375                      380  
 Asn Gln Ala Ile Ala Ile Pro Val Thr Val Ala Phe Val Xaa Asp Arg  
 385                      390                      395                      400  
 Arg Gly Pro Gly Pro Tyr Gly Ala Ser Leu Phe Gln His Phe Leu Asp  
 405                      410                      415  
 Ser Tyr Gln Val Met Phe Phe Thr Leu Phe Ala Leu Leu Ala Gly Thr  
 420                      425                      430  
 Ala Val Met Ile Ile Ala Tyr His Thr Val Cys Thr Pro Arg Asp Leu  
 435                      440                      445  
 Ala Val Pro Ala Ala Leu Thr Pro Arg Ala Ser Pro Gly His Ser Pro  
 450                      455                      460  
 His Tyr Phe Ala Ala Ser Ser Pro Thr Ser Pro Asn Ala Leu Pro Pro  
 465                      470                      475                      480  
 Ala Arg Lys Ala Ser Pro Pro Ser Gly Leu Trp Ser Pro Ala Tyr Ala  
 485                      490                      495  
 Ser His

<210> 792  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 792  
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
 1                      5                      10                      15  
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
 20                      25                      30  
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
 35                      40                      45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu

50		55		60
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys				
65		70		75 80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala				
	85		90	95
Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa				
	100		105	110

<210> 793  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 793
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
1 5 10 15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
20 25 30
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
35 40 45
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
50 55 60
Glu Arg Lys Ser Leu Leu Xaa Asn Leu Glu Glu Ala Lys Lys Lys Lys
65 70 75 80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
85 90 95
Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
100 105 110

<210> 794  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 794  
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
   1                  5                  10                  15  
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
                   20                  25                  30  
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
                   35                  40                  45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
   50                  55                  60  
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
   65                  70                  75                  80  
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
                   85                  90                  95  
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys  
  100                 105                 110  
 Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu  
  115                 120                 125  
 Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly  
  130                 135

<210> 795  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 795  
 Leu Leu Val Val Leu Leu Ser  
   1                  5

<210> 796  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 796

Leu Leu Leu Val Gly Leu Gln Gln Leu Val Val Gln Ala Trp  
1 5 10

<210> 797

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (274)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (276)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring amino acids

<400> 797

Phe Ser Ser Ser Ala Cys Pro Ser Val Xaa Ser Leu Phe Val Xaa Leu  
1 5 10 15

Gly Lys Asn Pro His Asp Ala Gln Gly His Pro Arg Ala Ser Glu Asp  
20 25 30

Gln Pro Ser Ser Gly Lys Pro Val Thr Ser Tyr Pro Gly Glu Cys Gly  
           35                          40                          45  
 Phe Val Phe Thr Lys Glu Ala Ser Leu Glu Ile Arg Asp Met Leu Leu  
           50                          55                          60  
 Ala Asn Lys Val Pro Ala Ala Arg Ala Gly Ala Ile Ala Pro Cys  
           65                          70                          75                          80  
 Glu Val Thr Val Pro Ala Gln Asn Thr Gly Leu Gly Pro Glu Lys Thr  
                           85                          90                          95  
 Ser Phe Phe Gln Ala Leu Gly Ile Thr Thr Lys Ile Ser Arg Gly Thr  
                           100                          105                          110  
 Ile Glu Ile Leu Ser Asp Val Gln Leu Ile Lys Thr Gly Asp Lys Val  
           115                          120                          125  
 Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe  
           130                          135                          140  
 Ser Phe Gly Leu Ile Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr  
   145                          150                          155                          160  
 Asn Pro Glu Val Leu Asp Ile Thr Glu Glu Thr Leu His Ser Arg Phe  
                           165                          170                          175  
 Leu Glu Gly Val Arg Asn Val Ala Ser Val Cys Leu Gln Ile Gly Tyr  
           180                          185                          190  
 Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg  
           195                          200                          205  
 Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu  
           210                          215                          220  
 Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala  
   225                          230                          235                          240  
 Pro Val Ala Ala Ala Thr Thr Ala Ala Pro Ala Ala Ala Ala Pro  
           245                          250                          255  
 Ala Lys Val Glu Ala Lys Glu Glu Ser Glu Glu Xaa Asp Glu Xaa Ile  
           260                          265                          270  
 Xaa Xaa Ser Xaa Ile Ser Lys Ser Asn Asn Ser Ser Gln Xaa Ile Val  
           275                          280                          285

<210> 798  
 <211> 97  
 <212> PRT

<213> Homo sapiens

<400> 798

Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr  
1 5 10 15  
Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe  
20 25 30  
Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln  
35 40 45  
Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln  
50 55 60  
Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly  
65 70 75 80  
Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val  
85 90 95

Gln

<210> 799

<211> 80

<212> PRT

<213> Homo sapiens

<400> 799

Gly Asn Arg Ser Phe Thr Arg Asn Leu Arg Cys Asn Trp Thr Gln Gly  
1 5 10 15  
Tyr Arg Trp Ser Thr Ala Leu Leu Ile Ser Leu Thr Leu Gly Gly Phe  
20 25 30  
Gly Ala Asp Arg Phe Tyr Leu Gly His Trp Gln Glu Gly Ile Gly Lys  
35 40 45  
Leu Phe Ser Phe Gly Gly Leu Gly Val Trp Thr Ile Ile Asp Val Leu  
50 55 60  
Leu Ile Ser Met His Tyr Leu Gly Pro Ala Asp Gly Ser Leu Tyr Ile  
65 70 75 80

<210> 800

<211> 81

<212> PRT

<213> Homo sapiens

<400> 800

Gly Asn Glu Val Gly Phe Phe Lys Pro Ile Ser Cys Arg Asn Val Asn  
1 5 10 15

Gly Tyr Ser Tyr Lys Val Ala Val Ala Leu Ser Leu Phe Leu Gly Trp  
20 25 30

Leu Gly Ala Asp Arg Phe Tyr Leu Gly Tyr Pro Ala Leu Gly Leu Leu  
35 40 45

Lys Phe Cys Thr Val Gly Phe Cys Gly Ile Gly Ser Leu Ile Asp Phe  
50 55 60

Ile Leu Ile Ser Met Gln Ile Val Gly Pro Ser Asp Gly Ser Ser Tyr  
65 70 75 80

Ile

<210> 801

<211> 15090

<212> DNA

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 <212> DNA  
 <213> Homo sapiens

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<213> Homo sapiens

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<211> 468  
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<400> 846

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 <212> DNA  
 <213> Homo sapiens

<400> 847

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<400> 848

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 <212> DNA  
 <213> Homo sapiens

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